



DEBORAH A. S. HOAG
UTILITIES DIVISION MANGER

CITY OF READING, PENNSYLVANIA

PUBLIC WORKS
503 N. 6TH STREET
READING, PA 19601
(610) 655-6121

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EPA REGION III

APR 01 2015

NPDES PERMITS BRANCH
(3WP41)

March 31, 2015

Mr. John Lovell (3WP41)
Office of Municipal Assistance
US Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia PA 19103-2029

Dear Mr. Lovell:

As required by the City of Reading's NPDES Permit Number PA0026549, the City is to submit an annual report covering developments of the City's Pretreatment Program. Enclosed please find the annual report covering the period of January 1, 2014 to December 31, 2014.

Please do not hesitate to contact me at 610-655-6121 should you have any questions on the report.

Thank you for your attention.

Sincerely,

A handwritten signature in black ink, appearing to read "Deborah A. S. Hoag".

Deborah A. S. Hoag, PE
Utilities Division Manger

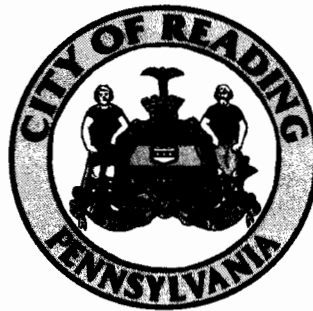
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Enclosure

C: Ralph Johnson, P.E., Director of Public Works
Jeffrey Hill, Environmental Program Coordinator
File



CITY OF READING

**ANNUAL PRETREATMENT
REPORT**



REPORTING YEAR 2014

PRETREATMENT PERFORMANCE SUMMARY

I. General Information

Control Authority Name: City of Reading WWTP

Address: 815 Washington Street

City : Reading

State : PA

Zip : 19601-3690

Contact Person: Deborah A.S. Hoag, P.E.

Contact Title: Utilities Division Manager

Contact Telephone Number: (610) 655-6121

E-mail address: Deborah.Hoag@readingpa.org

NPDES Nos: PA 0026549

Permit Issuance Date: 12/01/13

Expiration Date: 11/30/18

Reporting Period: 1/1/14 to 12/31/14

Total Categorical IUs (CIUs): 10

Total "Middle Tier" CIUs (MTCIUs): 0

Total Nonsignificant CIUs (NSCIUs): 0

Total Significant Noncategorical IUs (SNIUs): 26

II. Compliance Monitoring Program

1. No. of SIUs with Current Control Documents.....36
2. No. of SIU Facilities Inspected..... 36
3. No. of SIU Facilities Sampled..... 36
4. No. of SIUs Submitting Self-Monitoring Reports..... 36

III. Significant Industrial User Compliance

1. No. of SIUs Violating a Compliance Schedule/No. On a Schedule..... 0/0
2. No. of SIUs in SNC for the July to December Period..... 3
3. No. of SIUs in SNC At Any Time During Calendar Year..... 6
4. No. of SIUs in SNC That Were Also in SNC During The Previous
Calendar Year.....1
5. No. of NSCIUs that violated any standards or requirements..... N/A

IV. Enforcement Actions

1. Notices/Letters of Violation Issued to SIUs..... 62
2. Enforcable Compliance Schedules Issued to SIUs..... 0
3. Civil/Criminal Suits Filed..... 0
4. No. of SIUs from which Penalties have been Collected.....20
5. Other Actions (sewer bans, etc.).....0

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge. (See Part B.V of the instructions)

Deborah A. S. Hoag, P.E.

Name of Authorized Representative


Signature

Utilities Division Manager

Title (Print)

March 30, 2015

Date

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APR 01 2015

NPDES PERMIT DIVISION
(3WP41)

Pretreatment Annual Report

Part A – Pretreatment Performance Summary

I – General Information

Significant Users

At the end of the reporting period, the City of Reading had 36 significant industrial users, classifying 10 as categorical users and 26 as non-categorical users. Last year the City reported the same number of categorical and non-categorical users. All 36 of the users have current permits.

A new permit was written for Dairy Farmers of America with no changes made.

A new permit was written for Packaging Corporation of America. No changes were made.

A permit was written for Bimbo Bakeries, USA. The company's name was changed from Orograin Bakeries after a sale and change in ownership at the beginning of 2014. No changes in product, manufacturing, or personnel occurred because of the sale of the company. No other changes were made.

A new permit was written for Termaco USA, Inc. There were no changes made to the permit.

A new permit was written for Prizer Painter Stove Works, Inc. The company proposed to add a second shift. The permit reflected the change in hours but, since there would be no increase in the amount of metal prepared and the increase in water discharge is not expected to be very large, the company was not reclassified as a categorical industry.

A new permit was written for Reading Plating and Polishing Works, Inc. Changes were made to some of the categorical limits because a small increase in the volume of wastewater discharge occurred since the last time the permit had been renewed. No other changes were made.

A new permit was written for IFS Industries, Inc. No changes were made.

A new permit was written for Evergreen Community Power with no changes made.

No changes were made in the new permit written for Crescent Brass Manufacturing Corporation.

A new permit was written for Savor Street Foods, Inc. which changed the company name from The Bachman Company. The name change is due to the company being sold earlier in the year. No other changes were made to the permit.

A new permit was written for National/Yorgey's Cleaners with no changes made.

A permit was written for Reading Eagle Company with no changes made.

A permit was written for Tom Sturgis Pretzels with no changes made.

Non-Significant Users

The City also has 13 users classified as non-significant due to their minor flows and/or the low probability of potential problems.

A new permit was written for Allegheny Technologies Incorporated. This permit is for a groundwater remediation project to be built on an abandoned industrial site in a suburb of Reading. An amended permit was issued for TDY Industries LLC. This new permit changed the name on the permit from Allegheny Technologies Inc on the previous permit with the contact name and address remaining the same.

An amended permit was written for Akzo Nobel Coating, Inc R & D Lab to reflect the fact that the authorized representative had changed. There were no other changes.

A new permit was written for Remcon Plastics, Inc. There were no changes made.

A permit was written for Liberty Environmental, Inc. This company is an environmental consulting firm representing a local mini market which sells gasoline. The store is making plans to construct a groundwater remediation system on their property after groundwater testing revealed contamination consisting of the usual chemicals associated with gasoline and other petroleum products.

A new permit with no changes was written for Pennsylvania Truck Center, Inc.

A permit was written for Penske Truck Leasing Co. L.P. which stipulated that the company test all parameters in April 2015 and again in April 2017. No other changes were made.

II – Compliance Monitoring Program

Appendix 2 provides a listing with issuance and expiration dates for all significant and non-significant user control documents along with the number of inspections, sampling visits and self-monitoring events required and conducted during the year. The City uses permits for its control mechanism for significant and non-significant users. All 36 significant industrial users have current control documents. All permits are individual. According to permit Part V Section K, permits are administratively extended upon receipt of a permit renewal application “ninety (90) days prior to the expiration of the user’s existing wastewater discharge permit.” Once the user has reapplied, the existing permit “shall remain in effect until a new permit is issued.”

No general control mechanisms (permits) are used. For CIUs, the City has not assigned mass based limits in place of concentration based categorical limits. For CIUS, the City has not assigned concentration based limits in place of mass based categorical limits. The City has not granted a monitoring waiver for any CIU for any categorically regulated pollutants in accordance with 40 CFR 403.12(e)(2).

All 36 significant industrial users were inspected during the year. The City requires self-monitoring for all of its significant industrial users. For one industrial user, Bimbo Bakeries USA, Inc., formerly Orograin Manufacturing Bakeries, the City performs all of the testing for one parameter only. The City performs all testing for color in its own laboratory. The industry is required to do self-monitoring for all other parameters. This decision was based on the results of a split sample study performed in 2007. The City understands that any violation for color in its testing requires a resampling within 30 days in accordance with the Pretreatment Regulations.

Beginning with permits issued effective April 1, 2010, other items in the June 28, 2006 letter addressing the last EPA audit of the City's Pretreatment Program were also addressed. These permits include a limit for free cyanide. A number of these permits do not require testing for free cyanide. This determination was made based on a data review, facility inspections and documents from the company demonstrating that there is no reasonable potential for violation of the local limit for free cyanide and is documented in each permit. However, testing for free cyanide was added to some of the permits. If self-monitoring for any other local limits pollutants is not required twice a year in these permits, documentation based on a data review and facility inspections is included in each permit demonstrating that there is no reasonable potential for violation of the local limit for these particular pollutants. These permits contain an explanation for the number of grab samples required for those pollutants that require sampling in this manner. They also contain an explanation for the requirement for sampling in certain months of the year.

Beginning with permits issued effective April 1, 2010, the following permit conditions are included as sent to the EPA in April 2010:

D. Other Permit Conditions

The permittee shall notify the City immediately of any changes at the facility affecting the potential for a slug discharge. A slug discharge is any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass-through, or in any other way violate the POTW's (publicly owned treatment works) regulations, local limits or permit conditions.

The Permittee shall maintain or provide documentation demonstrating compliance with the best management practices listed below.

- A Spill Prevention and Control Plan (Accidental Discharge/Slug Control Plan) that has been submitted to the City for approval must be maintained and implemented by the Permittee. A plan entitled _____, dated _____ and signed _____ was submitted to the City for approval. The Permittee is required to maintain and implement this plan at its facility.

All 36 significant industrial users were inspected and sampled by the City during the year. City sampling of significant users varies from monthly to annually. Exide Technologies – Plant One had been sampled on a quarterly basis by the City. The City discontinued testing in the second half of 2010. Production in this building ceased on June 7, 2010 followed by cleanup of the production areas. The company continued sampling as required by permit. The discharge from the building is sanitary only. The closure resulted in minimal usage of the building facilities.

The majority of the building along with the major employee facilities is shut down and not accessible. Exide Technologies – Reading Recycling continues to be certified quarterly that there is no discharge.

Significant users are required to submit self-monitoring reports at varying frequencies but not less than twice per year. All significant industrial users submitted all required self-monitoring reports during the year. Some industries were cited and fined for submitting late reports during 2014, but all reports were ultimately received. The industries cited were: Crescent Brass Manufacturing Corporation (two citations for late reports), Crossroads Beverage Group, Interstate Container (three citations for late reports), Sealed Air Corporation, Sun Rich Fresh Foods Inc. (two citations for late reports), and Sweet Street Desserts, Inc. Ten industries were cited for failure to report violations upon discovery prior to submitting their self-monitoring reports: Car Wash Partners dba Mister Car Wash, Clover Farms Dairy, Crescent Brass Manufacturing (two citations for failure to report), IFS Industries (two citations for failure to report), National/Yorgey's Cleaners, Penske Truck Leasing, Prizer Painter Stove Works, Summit Steel and Manufacturing, and Termaco USA. Car Wash Partners dba Mister Car Wash, Crescent Brass Manufacturing (two citations), Summit Steel and Manufacturing, and Termaco USA were cited for failure to resample following a violation per their permit conditions. All of the companies that were cited for either failure to report and/or failure to resample were in SNC for some portion of 2014 for the above reasons plus the violations themselves.

During the year, the City conducted sampling in excess of the proposed amount at a number of facilities to assess compliance after violations. A number of facilities conducted self-monitoring above the required amount for the same reason. These events were done at the facility's initiative or voluntarily following the City's request. The Increased Industrial Sampling spreadsheet shows details of this and is included in **Appendix 3**. The number of additional sampling events on this spreadsheet does not always correspond with the Compliance Monitoring spreadsheet in Appendix 2 that covers all sampling events for the year. This is because City sampling events for issues other than compliance (additional sampling for conventional pollutants for surcharge billing) are not included in the Increased Industrial Sampling spreadsheet. In some cases, the City or the industry tested for additional parameters during a required or scheduled sampling event. In this case, the additional sampling performed column has been left blank and only the tests are listed. Required industrial resamples following violations are not included on any of the spreadsheets. Separate spreadsheets are included for significant industrial users and non-significant industrial users. The Increased Industrial Sampling spreadsheet notes any formal changes in sampling frequency with new permits. These are instances where the industrial user's permit or the City's SOP for an industrial user was changed to increase the frequency of testing for a parameter of concern.

While not required to report on non-significant industrial users, the City has always included this information in the Annual Report. All discharging non-significant industrial users were sampled by the City during the year, except Ultra Wash of Philadelphia. Ultra Wash of Philadelphia is permitted for possible batch discharge only and therefore monitoring by the City is not planned. City sampling of non-significant users varies from quarterly to annually with the exception of Ultra Wash of Philadelphia.

Non-significant users are required to submit self-monitoring reports at varying frequencies but not less than once a year. Ultra Wash of Philadelphia is required to report quarterly on whether there has been a discharge to the sewer system. All non-significant industrial users submitted all required self-monitoring reports during the year. Ultra Wash of Philadelphia was cited for a late report. The 1st quarter self monitoring report was submitted after the due date. Van Bennett Foods was cited for three late reports and two failures to resample. Van Bennett was in SNC due to the failures to resample as well as the high test results. They were not in SNC as of the end of the year.

Three non-significant industrial users were cited for filing late reports. They are Unique Pretzel Bakery, Van Bennett Food Company (two citations), and WORLD electronics. Two non-significant industrial users were cited for Failure to Report violations. The users were Penske Truck Leasing, and Van Bennett Food Company. Van Bennett Food Company was also cited for Failure to Resample.

III – Significant Industrial User Compliance

Compliance Schedules

There are no significant users on a formal compliance schedule as of the end of 2014.

List of significant users in SNC anytime in 2014

An explanation of the individual facilities, both significant and non-significant, in SNC during the reporting year follows below. The number of SIUs in SNC at any one time during the calendar year was 6. The number of SIUs in SNC for the July to December Period (fourth quarter) was 3. 6 of the 8 SIUs that were in SNC during the calendar year were in SNC for one quarter only. 4 of these 8 SIUs were in SNC for the administrative aspect of Failure to Report. Only 2 SIUs were in SNC for more than one quarter. Both of these companies have taken measures to solve their non-compliance issues. One has taken steps to resolve the problem by changing their method of cleaning and the amount of soap used to clean after consulting with a representative of the company that supplies them with soap. Testing done since changes were made has thus far proven inconclusive as the company remains in SNC. The other industry has had no further sampling so no conclusion can be made as to the success of their efforts to solve their issues.

The table below summarizes SNC by quarter. The first column shows the number of SIUs in SNC for the quarter. The second column shows the number of SIUs that were also in SNC for the previous quarter. The third column shows the number of new SIUs in SNC (not in SNC in the previous quarter). The fourth column shows the number of SIUs that were in SNC in the previous quarter but were not in SNC for the current quarter (returned to compliance or inconsistent noncompliance).

| 2014 | SNC | SIUs in Repeat SNC | New SIU in SNC | SIUs that Returned to Compliance |
|-------------------------|-----|--------------------|----------------|----------------------------------|
| 1 st quarter | 0 | 0 | 0 | 1 |
| 2 nd quarter | 6 | 0 | 6 | 0 |
| 3 rd quarter | 2 | 1 | 1 | 5 |
| 4 th quarter | 3 | 2 | 1 | 0 |

The table below shows the compliance status of the SIUs by quarter for the 2014 year. The number of SIUs in the first column had no violations for the quarter. The number of SIUs in the second column had violations that did not result in SNC. The number of SIUs in the third column had violations resulting in SNC.

| 2014 | Compliance | Inconsistent Noncompliance | SNC |
|-------------------------|------------|----------------------------|-----|
| 1 st quarter | 30 | 6 | 0 |
| 2 nd quarter | 29 | 1 | 6 |
| 3 rd quarter | 29 | 5 | 2 |
| 4 th quarter | 31 | 2 | 3 |

These facilities are the *significant users* that were in SNC for the year.

Car Wash Partners dba Mister Car Wash

Nature of violation:

2nd Quarter-Failure to report violation

2nd Quarter-Failure to resample

Actions planned and current compliance status:

The company took self monitoring samples in May as outlined in their discharge permit. Results of the samples showed an oil and grease SGT-HEM violation. The violation was reported to the City with the self monitoring report but not within 24 hours of learning of the violation as required in their permit. Also, the company scheduled a resample but not within 30 days of becoming aware of the original violation as required in their permit. The company returned to compliance by the next quarter and remained in compliance as of the end of 2014.

Clover Farms Dairy

Nature of violation:

2nd Quarter-Failure to report violation

Actions planned and current compliance status:

The company had self monitoring samples taken on June 3, 2014. The pH sample taken during this sampling showed a violation. This violation was not reported within 24 hours of the occurrence of the violation, but rather in the company's self monitoring report. There was no violation for failure to resample because the permit states that no resample is necessary if the company samples the parameter in violation at least once a month, which is the frequency this company takes pH samples. The company returned to compliance as of the following quarter and remains in compliance at the present time.

Crescent Brass Manufacturing Company

Nature of violation:

2nd Quarter-TRC mercury

2nd Quarter-2 Failure to Resample violations

2nd Quarter -2 Failure to Report violations

Actions planned and current compliance status:

The company submitted their second quarter self monitoring report late. The report indicated two (2) violations during the May testing: one (1) copper and one (1) TRC

mercury. The violations were not reported to the City within 24 hours of becoming aware of the violations as required in the discharge permit. Also, the company never resampled for either copper or mercury within 30 days of becoming aware of the violations as required by their wastewater discharge permit. With the City's increased industrial sampling, the company returned to compliance in the third quarter and remains there at this time.

IFS Industries, Inc.

Nature of violations:

2nd Quarter-2 Failure to Report violations

Actions planned and current compliance status:

The company submitted its second quarter self monitoring report on time. The company is required to take a monthly sample for oil and grease performed as HEM and SGT-HEM. In the report, it was discovered that both the May and June samples were above the limit for oil and grease as performed as HEM. These results did not put the company in SNC, however the company did not report either of the violations within 24 hours of learning of them as required in their Industrial Wastewater Discharge permit. They were not required to resample as they sample for these parameters on a monthly basis as does the City. In the third quarter, the company returned to compliance and has remained there.

National/Yorgey's Cleaners

Nature of violations:

2nd Quarter-TRC and chronic pH

3rd Quarter-TRC and chronic pH

4th Quarter-TRC and chronic pH

Actions planned and current compliance status:

There were pH violations during normal City testing in April. Two extra samples were taken in June in an attempt to test the company out of SNC. Both samples were also in violation. Violations also occurred during City testing in July and Self Monitoring testing in December. The reason given after all the violations was that too much soap was being used and that the company would adjust the amount per load washed. The company remains in violation as of the end of 2014.

Prizer Painter Stove Works, Inc.

600 Arlington Street

Reading, PA 19611

Nature of violations:

2nd Quarter-Failure to report violation

Actions planned and current compliance status:

A pH violation occurred during Self Monitoring sampling in June. This violation was not reported within 24 hours of knowledge of the violation as required in the discharge permit. A repeat sample was within the discharge limits. The company returned to compliance in the third quarter and remained in compliance as of the end of 2014.

Summit Steel and Manufacturing

1005 Patriot Parkway

Reading, PA 19605

Nature of violations:

3rd Quarter-TRC zinc monthly limit

Actions planned and current compliance status:

Self Monitoring samples taken in September showed a zinc violation. Due to the extremely low volume of wastewater from this industry, there was not a chance to try to test the company out of SNC. The company was unable to offer an explanation for the violation. They remain in SNC as of the end of 2014.

Termaco USA

171 Tuckerton Road

Reading, PA 19605

Nature of violations:

4th Quarter-TRC violation of the mercury limit listed in its permit

4th Quarter-Failure to resample

4th Quarter-Failure to report violation

Actions planned and current compliance status:

Self Monitoring samples were taken in December as required in the discharge permit with the analytical report dated the last week of the year. The samples showed a mercury violation. The violation was not reported within 24 hours of gaining knowledge of the violation, nor was there a repeat sample taken also as required in the discharge permit. The company has not yet responded to the notice of violation but still has time to answer without the response being considered late. As such, they remain in SNC as of the end of 2014.

The following facilities are *non-significant users* that were in SNC for the year.

Penske Truck Leasing

255 Penske Plaza

Reading, PA 19602

Nature of violation:

4th Quarter-Failure to Report a violation

Actions planned and current compliance status:

The company's fourth quarter Self Monitoring report indicated a zinc violation. This violation was not reported within 24 of gaining knowledge of the violation as required in its discharge people. The company remains in SNC at the end of 2014.

Remcon Plastics, Inc.

208 Chestnut Street

Reading, PA 19602

Nature of violation:

1st Quarter-TRC and chronic zinc

2nd Quarter-TRC and chronic zinc

Actions planned and current compliance status:

City testing in February showed a zinc violation. Three subsequent samples were taken in March. Two of those three samples were violations. A Self Monitoring sample taken in May also showed a violation. A resample in early June showed no violation. The company was in SNC for

the first two quarters of 2014, but returned to compliance in the third quarter and remains in compliance as of the end of 2014.

Unique Pretzel Bakery
215 East Bellevue Avenue
Reading, PA 19605

Nature of violation:

3rd Quarter-TRC copper

4th Quarter-TRC copper

Actions planned and current compliance status:

During City sampling in September, a TRC copper violation occurred. Due to a very sporadic discharge schedule, there was no opportunity to resample prior to year's end to verify compliance. Subsequently, the company was in SNC at the end of the third quarter of 2014 and at the end of the year.

Van Bennett Food Company, Inc
101 N Carroll Street
Reading, PA 19611

Nature of violation:

1st Quarter -TRC oil and grease (HEM)

1st Quarter-Failure to report violation

1st Quarter-Failure to resample

Actions planned and current compliance status:

The company reported an oil and grease (HEM) violation on their 1st quarter self monitoring report which was sent late. The violation was not reported within 24 hours of gaining knowledge of the violation, nor were resamples taken as required by their discharge permit. The company returned to compliance as of the second quarter of 2014 and remained in compliance through the end of the year.

Repeat SNC from the Prior Year

Industrial Users that were in SNC for this reporting year that were also in SNC for the previous reporting period are found in **Appendix 4**. This appendix also lists the parameter or reason for the industrial user being in SNC for both years. There was one SIU that was in SNC last year that was also in SNC in 2014 - Crescent Brass Manufacturing Company. In 2013, the company was in SNC due to two TRC copper violations, one chronic copper violation, a Failure to Resample, and a Failure to Report. In 2014, the company was in SNC because of a TRC mercury, two Failure to Resample violations, and two Failure to Report violations. All of the violations in 2014 occurred in the 2nd Quarter so the company was able to be in SNC as of the end of 2014. The non-SIU in SNC in 2013 and 2014 was Van Bennett Food Company. In 2013, the company Failed to Resample after an oil and grease violation. In 2014, they were in SNC for a TRC oil and grease violation, failing to report the violation, and failing to resample after the violation. The 2014 violation occurred in the 1st Quarter. The company had no further violations during 2014 and was in compliance at the end of the year.

Newspaper Listing

The significant users in significant non-compliance at any time during the reporting year are found in the newspaper listing attached as **Appendix 5**. The City used the rolling six-month time frame as required by 40 CFR 403.8 (f)(2)(viii) and reported all significant violators on a quarterly basis.

IV – Enforcement Actions

Appendix 6 provides a list of the following for both significant and non-significant industrial users:

Notices of violation

Number and nature of violations

Compliance orders

Total penalties assessed in 2014 and the reasons for the penalties

The City issued 73 Notices of Violation for 2014. This is a marked decrease from 2013. Also, only 17 SIUs received NOV's for 2014. It is attributed to working informally but aggressively with industries having compliance issues in order to seek solutions prior to the necessity of a Consent Agreement. Another major factor is the City's Penalty Escalation Policy. Under this program, the penalty is escalated after two consecutive quarters with one or more TRC violations for the same parameter. The penalty escalates again after two more consecutive quarters with one or more TRC violations for the same parameter. If there is a quarter without a violation, the penalty remains at the same level for the next two quarters. The penalty returns to the base amount after four consecutive quarters without a violation for the parameter in question. Although there are some industries that are still having penalties escalated, others have been able to return to the base amount through continued compliance. The penalty escalation program has also been a positive factor in working with industries to enter into a Consent Agreement. The penalty escalation program has been in effect since 2003.

All SIUs that had violations were subject to enforcement action by the City. All NOV's issued to SIUs by the City were followed with an administrative penalty during the next billing cycle. The initial penalty schedule is found in **Appendix 6**. A number of facilities have had penalties escalated due to recurring violations for the same parameter which is also detailed therein.

Compliance Schedules

There were no compliance schedules issued or effective in 2014. A Consent Order and Agreement (COA) may be discussed with and written for Clover Farms Dairy. The City intends to proceed cautiously in the decision to write such a document and secure EPA review and input of the draft COA prior to any discussion or presentation of the document to the company. The City does not intend to include any reduction in fines in a new COA. The City contemplates including pH adjustment, a new sampling point (sampling manhole) and flow metering of the discharge. The company and its lawyer appear to want the City's approval to abandon plans for a DAF system in favor of the installation of skimmers to control oil and grease. The City is interested in consistent compliance at all times and representative sampling and the method of achieving this is the responsibility of the company. The company proceeded with and completed construction on improvements on its pretreatment system. Clover Farms and its consultants are

working to find the best way to run the new plant. Penalties on pH violations were increased to \$1000 per occurrence in the third quarter of 2014.

There are no significant users on compliance schedules that are in writing but are not considered “formal”.

17 significant users were assessed penalties resulting from violations in 2014. Penalties were collected from 20 of the users in 2014. The number of users paying penalties in 2014 does not correspond to those receiving penalties as a result of the third and fourth quarter 2013 penalties that were issued and paid in 2014, and third quarter 2014 penalties issued in 2015. Fourth quarter 2014 penalties have not yet been issued to the industries through the City’s registered bill process. Penalties are included in the quarterly industrial waste surcharge bills. A report on the penalty payment status for violations occurring during 2014 is included in **Appendix 7**. An updated report for the 2013 issued penalties is included. One industry who is normally current with invoices, Reading Truck Body, still shows as not having paid and will be further investigated to determine the accuracy. The other unpaid penalties from 2013 are for Paragon Optical who has since declared bankruptcy and ceased operations. Please note that Crescent Brass appears periodically throughout the report. They are required to pay \$265.05 monthly for prior years’ delinquent fines as a settlement in their bankruptcy. These payments are processed by the Law Department and postings often include multiple months.

The City has been and will continue to investigate errors in the penalty payment and posting. There are some minor prior year payment discrepancies requiring additional research with the Administrative Services Department. Public Works staff has discovered errors with the posting of prior penalties’ payments within the software system as well as subsequent corrections not reflected in the reports. Research in this system shows that the corrections appear in some individual customer queries but not in the summary reports pulled for routine use such as the requisite reporting. This system’s data is also transferred to the City’s accounting system so the error correction process is critical. The City is working interdepartmentally to resolve this issue for the past and determine how to make corrections be reflected in both the accounting and tracking systems with accurate tracking and reporting in all systems as the goal. Crescent Brass as discussed above is one industry known to have an ongoing issue with the software report discrepancy described. Through working with the Treasury Manager and her staff and their knowledge of the impact to the correction process on subsequent reports, the posting of paid bills has not yielded the reporting problems as had been seen in prior years.

Part B – Pretreatment Developments

I – Summary of POTW Operations

Over the past year, the City has not experienced process upsets, NPDES permit violations, pass-through events or interferences that could be attributed to industrial waste. Additionally, the City did not have problems in the collection system that could be attributed to industrial waste.

The ongoing improvements in management, operations and maintenance (MOM) practices during the year continue to make the pump stations and wastewater treatment plant (WWTP) more effective, efficient and reliable.

The City is required to perform priority pollutant testing annually. The priority pollutant sampling along with the quarterly local limits testing was conducted on the following dates: 9/21-22/14 for the influent, 9/21-22/14 for the effluent and 1/8/14 for the biosolids. The results of these analyses are included in **Appendix 8**. The Form 43 biosolids sampling was conducted on 1/8/14 and 7/12/14. The City is required to perform local limits testing on the influent, effluent, and biosolids on a quarterly basis per the City's NPDES permit. Four tests were performed for the influent and effluent as reported in the in the Monitoring Data Spreadsheet. The new NPDES permit effective December 1, 2013 does not require the weekly mercury testing performed on plant influent points and the plant effluent as has been required by the past NPDES permits. Priority pollutant testing and quarterly local limits testing are also performed at two of the major influent points for the plant prior to the commingling of all wastewater with internal plant recycle flows at what is designated as the plant influent. These two major influent points are designated as 6th and Canal (6th) and the Grit Chamber (Grit). Results for these two major influent points are included in **Appendix 8** and also in the Monitoring Data Spreadsheet.

For biosolids, monthly 503 analyses were performed in 2014. Monthly fecal coliform testing on biosolids was not done in 2014. These are included in **Appendix 8**.

Influent, effluent and biosolids data from the quarterly testing and priority pollutants testing and biosolids data from the Form 43 and 503 analyses are summarized in the Monitoring Data Spreadsheet received by e-mail from the EPA. These are included in **Appendix 8**. The monthly average for BOD, TSS, NH₃-N, and Phosphorus for the plant influent was added to the Monitoring Data Spreadsheet. Data from the two major influent points of the plant was added to the Monitoring Data Spreadsheet as two separate tabs.

With the new NPDES permit, no additional testing was required for bis(2-Ethylhexyl)phthalate or semivolatiles on the plant influent points, plant effluent and biosolids in 2014.

Biosolids testing for the year showed a slightly higher level of molybdenum in a few summer months. The City identified cooling tower chemicals as an important source of this metal. All permittees are required to test for molybdenum at least once a year, and the City tests for molybdenum as well. The City ensures that permits require testing for this metal in the summer months. No major source of molybdenum has been found at any industrial user. The City has been encouraging the elimination of molybdenum containing cooling tower chemicals among its

industrial users, non-industrial users and contributing municipalities. All metals in the biosolids meet land application concentration limits except for molybdenum sporadically in the summer months. There were no WWTP maintenance activities performed in those months that would potentially explain the reason for the elevated levels. The City has cleaned digesters and has been seeing a reduction in the molybdenum levels in the biosolids. The City continues to landfill all biosolids from the wastewater treatment plant but would like to be able to consider other disposal options in the future.

In a letter from DEP dated August 31, 2004, the effluent limit for mercury was amended. The new limit which is a monthly average is 0.00023 mg/L. A copy of the letter and the discharge limitations showing the amended mercury limit is enclosed. The Monitoring Data Spreadsheet lists 0.00007 mg/L as the effluent goal. In December 2013, mercury was removed from the NPDES permit and, therefore, there is no longer a limit nor testing requirement.

No trucked or hauled wastewater or brine waste is accepted at the plant or within the collection system. With the wastewater treatment plant upgrades being designed, no receiving facilities are included. In 2006, Dietrich's Milk Products began collecting some of its high strength wastewater as part of its program to comply with its oil and grease limit. This is primarily first flushes during equipment cleanup after milk processing. In 2008, Clover Farms Dairy also began collecting some of its high strength wastewater to control oil and grease discharges. Documentation on individual waste streams that are collected for off site disposal (i.e. hazardous waste, used oil, sludges) by industrial users is reviewed during facility inspections.

II – Pretreatment Program Changes

During 2014, there were no changes in the legal authority.

The City continues to use both the PreWin commercial software program as well as a custom spreadsheet developed by the Environmental Program Coordinator for tracking compliance. This system of checks and balances ensures that all deadlines, milestones, notices of violation, and significant non-compliance will be accurately reflected and reported.

The WWTP laboratory, which performs conventional analyses for the wastewater treatment plant and industries, received accreditation in January 2008 under Pennsylvania's Chapter 252, Environmental Laboratory Accreditation. The laboratory has maintained its accreditation since that time. Accreditation has been renewed through January 31, 2015. The annual renewal application was submitted in December, 2014. The scope of accreditation is for the following parameters: BOD, cBOD, TS, TSS, TDS, fecal coliform, ammonia as nitrogen, distillation for ammonia as nitrogen, and total phosphorus with digestion.

A laboratory technician was hired in February 2014 in order reach full staffing at 5 lab technicians. One of the other lab technicians transferred into the plant's operations in 2014. Another lab technician was hired soon after to take her place. We currently employ 5 technicians working in the laboratory. Beginning in 2013, technicians were assigned the task of pretreatment industrial sampling on a rotating basis. Each of the technicians performed the sampling duties for one month at a time.

III – Miscellaneous Developments

During March 2003, legal counsel for the City was requested by the United States Department of Justice to meet concerning permit violations of the wastewater treatment plant. As a result of this and subsequent meetings, the City of Reading has a Consent Decree with the United States Department of Justice, United States Environmental Protection Agency, and Pennsylvania Department of Environmental Protection in order to address past permit violations and to obtain consistent permit compliance for the future. This Consent Decree addresses the wastewater treatment plant, collections system, and industrial pretreatment program. The negotiations for this Consent Decree were completed and the decree executed by all parties in 2004. On December 9, 2004, the US Attorney announced that an agreement had been reached between the parties, and the complaint and decree were lodged with the judge simultaneously. This was subsequently advertised for a thirty-day public comment period which continued into 2005. The Consent Decree was officially signed by the judge and entered on November 7, 2005. This Consent Decree dictates many interim improvements and systems to be implemented while the City embarks on studies of both the WWTP and collection system prior to beginning a capital improvement plan.

An Amended Consent Decree dated February 26, 2014 included updates to reflect changes that had occurred with the timing, scope, funding, and direction for the contemplated capital improvements and system rehabilitation.

For the Consent Decree interim remedial measures, there is the ongoing implementation and refinement of the Environmental Management System, Wet Weather Operations Plan, and the Operations and Maintenance Plan. Additionally, the Plant Influent, Trickling Filter Performance, and Process Control Monitoring are continuing as described in their respective submissions as required.

The long-term remedial measures for the WWTP upgrades, includes the liquid and solid treatment alternatives required by the Consent Decree. Additionally, the collection system has planned pump station and force main upgrades and improved mapping, operations, and maintenance through a regimented process leading to system rehabilitation

The City continues to work to improve the wastewater system as a whole and plan, design, and construct capital improvements. Periodic reports to the regulators and meetings with the regulators document the City's progress and concerns.

2014 Pretreatment Report Appendices

| | |
|---------------------|--|
| Appendix 1 - | Current Industrial Users |
| Appendix 2 - | Compliance Monitoring Program |
| Appendix 3 - | Increased Industrial Sampling |
| Appendix 4 - | Facilities in SNC for 2014 that were also in SNC for 2013 |
| Appendix 5 - | Newspaper Listing of Significant Violators |
| Appendix 6 - | Enforcement Actions |
| Appendix 7 - | Payment Status |
| Appendix 8 - | Data Monitoring Spreadsheet |
| | Analytical Results |

APPENDIX 1

CURRENT INDUSTRIAL USERS

**SIGNIFICANT INDUSTRIAL USERS 2014
CATEGORICAL INDUSTRIES (10)**

| | |
|---|--|
| Carpenter Technology Corporation - Iron and Steel 101 West Bern Street Reading PA 19601 | Mailing Address: P O Box 14662 Reading PA 19612-4662 |
| Crescent Brass Manufacturing-Metal Molding & Casting - Zero Discharge 701 Park Avenue Reading PA 19611 | Mailing Address: Same |
| Hofmann Industries - Metal Finishing 3145 Shillington Road Sinking Spring PA 19608 | Mailing Address: Same |
| Reading Plating and Polishing Works - Electroplating 1833 and 1840 Cotton Street Reading PA 19606 | Mailing Address: 1839 Cotton Street Reading PA 19606 |
| Reading Truck Body - Metal Finishing 201 Hanover Blvd. Reading PA 19611 | Mailing Address: Same |
| Sealed Air Corporation - Pulp and Paper 450 Riverfront Drive Reading PA 19602 | Mailing Address: Same |
| Summit Steel and Manufacturing - Metal Finishing 1005 Patriot Parkway Reading PA 19605 | Mailing Address: Same |
| Termaco USA - Metal Finishing 171 Tuckerton Road Reading PA 19605 | Mailing Address: Same |
| United Corrstack - Pulp and Paper 720 Laurel Street Reading PA 19602 | Mailing Address: Same |
| Yuasa Inc - Battery Manufacturing 2901 Montrose Ave Laureldale PA 19605 | Mailing Address: Same |

**SIGNIFICANT INDUSTRIAL USERS 2014
NON-CATEGORICAL INDUSTRIES (26)**

Akzo Nobel Coatings
159 Columbia Avenue
Reading PA 19601

Mailing Address:
Same

Aramark Uniform Services
424 Blair Avenue
Reading PA 19601

Mailing Address:
Same

Berks Packing Company
307-323 Bingaman Street
Reading PA 19602

Mailing Address:
P O Box 5919
Reading PA 19610

Bimbo Bakeries USA, Inc.
(formerly Orograin Bakeries)
640 Park Avenue
Reading PA 19611

Mailing Address:
Same

Car Wash Partners dba Mister Car Wash
1 Cloister Court
Sinking Spring PA 19608

Mailing Address:
Same

Clover Farms Dairy
3300 Pottsville Pike
Reading PA 19605

Mailing Address:
P O Box 14627
Reading PA 19612

Crossroads Beverage Group
1055 Crossroads Boulevard
Reading, PA 19605

Mailing Address:
Same

Cryovac, Inc.
Food Packaging Division
177 Tuckerton Road
Reading PA 19605

Mailing Address:
Same

Dairy Farmers of America
100 McKinley Avenue
Reading PA 19605

Mailing Address:
Same

Evergreen Community Power
800 South Street
Reading PA 19602

Mailing Address:
Same

Exide Technologies
Spring Valley Road & Nolan Street
Spring Valley Road & Montrose Avenue
Laureldale PA 19605

Mailing Address:
P O Box 14294
Reading PA 19612

IFS Industries Inc.
400 Orrton Avenue
Reading PA 19611

Mailing Address:
P O Box 1053
Reading PA 19603

Interstate Container LLC.
100 Grace Street
Reading PA 19611

Mailing Address:
Same

Lentz Milling
2045 N 11th Street
Reading PA 19604

Mailing Address:
P O Box 13159
Reading PA 19612

National/Yorgey's Cleaners
1700 Fairview Street
Reading PA 19606

Mailing Address:
Same

Packaging Corporation of America
171 Tuckerton Road
Reading PA 19605

Mailing Address:
P.O. Box 250 291 Main Street
South Glastonberry, CT 06073

Prizer Painter Stove Works
600 Arlington Street
Reading PA 19611

Mailing Address:
P O Box 1053
Reading PA 19603

Quadrant EPP USA, Inc.
2120 Fairmont Avenue
Reading PA 19605

Mailing Address:
P O Box 14235
Reading PA 19612-4235

Quaker Maid Meats
520 & 521 Carroll Street
650 Morgantown Road
Reading PA 19607-0350

Mailing Address:
P O Box 350
Shillington PA 19607-0350

Reading Eagle
345 Penn Street
Reading PA 19603

Mailing Address:
P O Box 582
Reading PA 19603

Reitech Corporation
3146 Marion Street
Laureldale PA 19605

Mailing Address:
Same

Savor Street Foods
(formerly The Bachman Company)
51 Spring Valley Road
Reading PA 19605

Mailing Address:
P O Box 15053
Reading PA 19612

St Joseph Medical Center-Downtown
145 N 6th Street
Reading PA 19601

Mailing Address:
P O Box 316
Reading PA 19603

Sun Rich Fresh Foods
425 Gateway Drive
Reading PA 19601

Mailing Address:
Same

Sweet Street Desserts
722 Hiester's Lane
Reading PA 19605

Mailing Address:
P O Box 15127
Reading PA 19612

Tom Sturgis Pretzels
2267 Lancaster Pike
Reading PA 19607

Mailing Address:
Same

2014 NON-SIGNIFICANT INDUSTRIES (13)

Air Liquide
2500 N 11th Street
Reading PA 19605

Mailing Address:
P O Box 13577
Reading PA 19612-3577

Akzo Nobel Coatings Inc-R&D Center
3 Commerce Drive
Reading PA 19607

Mailing Address:
Same

Diesel Service, Inc.
150 Lehigh Street
Reading PA 19601

Mailing Address:
P O Box 14325
Reading PA 19612-4325

Liberty Environmental, Inc.
4801 5th Street Highway
Temple, PA 19560

Mailing Address:
50 North 5th Street
Reading, PA 19601

NGK Metals Corporation
150 Tuckerton Road
Temple PA 19560

Mailing Address:
917 US Highway 11 South
Sweetwater TN 37874

Pennsylvania Truck Centers
4226 Pottsville Pike
Reading PA 19605

Mailing Address:
P O Box 13337
Reading PA 19612-3337

Penske Truck Leasing
255 Penske Plaza
Reading PA 19602

Mailing Address:
P O Box 7635
Reading PA 19603-7635

Remcon Plastics
208 Chestnut Street
Reading PA 19602

Mailing Address:
Same

TDY Industries, LLC
303 East Wyomissing Road
Mohnton, PA 19540

Mailing Address:
48 Prestbury Square Building, Suite 18
Newark, DE 19713

Ultra Wash of Philadelphia
1619 N 9th Street
Reading PA 19604

Mailing Address:
P O Box 1130
North Cape May NJ 08204

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605

Mailing Address:
Same

Van Bennett Food Company
101 N Carroll Street
Reading PA 19611

Mailing Address:
Same

WORLD electronics
3000 Kutztown Road
Reading PA 19605

Mailing Address:
Same

APPENDIX 2

COMPLIANCE MONITORING PROGRAM

2014 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

| Industry Name | Control Document | | Inspection and Sampling Frequency | | | | | |
|---|------------------|--------------------|-----------------------------------|----------|-----------------|----------|-----------------|----------|
| | | | Inspections | | Sampling Visits | | Self-Monitoring | |
| | Issuance Date | Expiration Date | Performed | Proposed | Performed | Proposed | Performed | Required |
| Akzo Nobel Coatings | April 1, 2012 | March 31, 2015 | 1 | 1 | 12 | 12 | 12 | 12 |
| Aramark Uniform Services | July 1, 2013 | June 30, 2016 | 1 | 1 | 5 | 4 | 12 | 12 |
| Berks Packing Company | January 1, 2013 | December 31, 2015 | 1 | 1 | 5 | 4 | 16 | 12 |
| Bimbo Bakeries USA | July 1, 2014 | June 30, 2017 | 1 | 1 | 5 | 4 | 6 | 2 |
| Car Wash Partners dba Mister Car Wash | July 1, 2012 | June 30, 2015 | 1 | 1 | 4 | 4 | 4 | 4 |
| Carpenter Technology | October 1, 2012 | September 30, 2015 | 1 | 1 | 4 | 4 | 4 | 4 |
| Clover Farms Dairy | October 1, 2012 | September 30, 2015 | 1 | 1 | 13 | 12 | 13 | 12 |
| Crescent Brass Manufacturing | October 1, 2014 | September 30, 2017 | 1 | 1 | 1 | 1 | 2 | 2 |
| Crossroads Beverage | April 1, 2012 | March 31, 2015 | 1 | 1 | 2 | 2 | 2 | 2 |
| Cryovac Food Packaging Division | April 1, 2013 | March 31, 2016 | 1 | 1 | 2 | 2 | 2 | 2 |
| Dairy Farmers of America | April 1, 2014 | March 31, 2017 | 1 | 1 | 12 | 12 | 12 | 12 |
| Evergreen Community Power | October 1, 2014 | September 30, 2017 | 1 | 1 | 2 | 2 | 2 | 2 |
| Exide Technologies | January 1, 2012 | December 31, 2015 | 1 | 1 | 4 | 4 | 4 | 4 |
| Hofmann Industries | April 1, 2009 | March 31, 2012 | 1 | 1 | 2 | 2 | 4 | 4 |
| IFS Industries (International Foundry Supply) | October 1, 2014 | September 30, 2017 | 1 | 1 | 12 | 12 | 14 | 12 |
| Interstate Container | October 1, 2013 | September 30, 2016 | 1 | 1 | 4 | 4 | 4 | 4 |
| Lentz Milling | July 1, 2013 | June 30, 2016 | 1 | 1 | 2 | 2 | 5 | 4 |
| National/Yorgey's Cleaners | January 1, 2015 | December 31, 2017 | 1 | 1 | 5 | 4 | 2 | 2 |
| Packaging Corporation of America | April 1, 2014 | March 31, 2017 | 1 | 1 | 4 | 4 | 4 | 4 |
| Prizer Painter Stove Works | July 1, 2014 | June 30, 2017 | 1 | 1 | 4 | 4 | 5 | 4 |
| Quadrant EEP USA | April 1, 2012 | March 31, 2015 | 1 | 1 | 1 | 1 | 2 | 2 |
| Quaker Maid Meats | October 1, 2012 | September 30, 2015 | 1 | 1 | 6 | 4 | 4 | 4 |
| Reading Eagle Company | January 1, 2015 | December 31, 2017 | 1 | 1 | 2 | 2 | 2 | 2 |
| Reading Plating & Polishing Works | July 1, 2014 | June 30, 2017 | 1 | 1 | 4 | 4 | 4 | 4 |
| Reading Truck Body | October 1, 2013 | September 30, 2016 | 1 | 1 | 4 | 4 | 12 | 12 |
| Reitech Corporation | October 1, 2013 | September 30, 2016 | 1 | 1 | 2 | 2 | 2 | 2 |
| Savor Street Foods | January 1, 2015 | December 31, 2017 | 1 | 1 | 6 | 4 | 5 | 4 |
| Sealed Air Corporation | January 1, 2013 | December 31, 2015 | 1 | 1 | 13 | 12 | 113 | 52 |
| St Joseph Medical Center Downtown | April 1, 2013 | March 31, 2016 | 1 | 1 | 6 | 4 | 12 | 12 |
| Summit Steel and Manufacturing | October 1, 2012 | September 30, 2015 | 1 | 1 | 1 | 1 | 2 | 2 |
| Sun Rich Fresh Foods | January 1, 2014 | December 31, 2016 | 1 | 1 | 12 | 12 | 12 | 12 |

2014 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

| Industry Name | Control Document | | Inspection and Sampling Frequency | | | | | |
|-----------------------|------------------|--------------------|-----------------------------------|-----------|-----------------|------------|-----------------|------------|
| | | | Inspections | | Sampling Visits | | Self-Monitoring | |
| | Issuance Date | Expiration Date | Performed | Proposed | Performed | Proposed | Performed | Required |
| Sweet Street Desserts | April 1, 2012 | March 31, 2015 | 1 | 1 | 6 | 4 | 6 | 4 |
| Termaco USA | July 1, 2014 | June 30, 2017 | 1 | 1 | 2 | 2 | 4 | 4 |
| Tom Sturgis Pretzels | January 1, 2015 | December 31, 2017 | 1 | 1 | 5 | 4 | 4 | 4 |
| United Corrstack | October 1, 2013 | September 30, 2016 | 1 | 1 | 12 | 12 | 12 | 12 |
| Yuasa Battery | April 1, 2009 | March 31, 2012 | 1 | 1 | 4 | 4 | 4 | 4 |
| | | | | | | | | |
| Total | | | 36 | 36 | 190 | 175 | 329 | 252 |

NOTES:

Bimbo Bakery USA: A new permit was written changing the name of the company from Orograin Bakeries to Bimbo Bakeries USA to reflect a change in ownership.

Prizer Painter Stove Works: The new permit was written to reflect the company's plans to add a second shift which would change both the time of discharge and the limits for some of the discharge parameters.

Savor Street Foods Inc: There was an ownership change and name change from The Bachman Company to Savor Street Foods during the year which was reflected in the new permit.

Permit Expiration and Extension: Permits are administratively extended as written upon receipt of re-application until new permit issuance.

2014 COMPLIANCE MONITORING PROGRAM

Non-Significant Industrial Users

| Industry Name | Control Document | | Inspection and Sampling Frequency | | | | | |
|---------------------------------------|------------------|--------------------|-----------------------------------|----------|-----------------|-----------|-----------------|-----------|
| | Issuance Date | Expiration Date | Inspections | | Sampling Visits | | Self-Monitoring | |
| | | | Performed | Proposed | Performed | Proposed | Performed | Required |
| Air Liquide | July 1, 2012 | June 30, 2015 | 0 | 0 | 1 | 1 | 2 | 2 |
| Akzo Nobel Powder Coatings R&D Center | July 1, 2012 | June 30, 2015 | 0 | 0 | 1 | 1 | 2 | 2 |
| Diesel Service | October 1, 2011 | September 30, 2016 | 0 | 0 | 0 | 0 | 2 | 1 |
| NGK Metals Corporation | April 1, 2012 | March 31, 2015 | 0 | 0 | 2 | 4 | 2 | 2 |
| Liberty Environmental, Inc | August 1, 2014 | June 30, 2017 | 0 | 0 | 2 | 2 | 4 | 4 |
| Pennsylvania Truck Centers | October 1, 2014 | September 30, 2017 | 0 | 0 | 2 | 2 | 2 | 2 |
| Penske Truck Leasing | January 1, 2015 | December 31, 2017 | 0 | 0 | 5 | 4 | 5 | 4 |
| Remcon Plastics | April 1, 2014 | March 31, 2017 | 0 | 0 | 1 | 1 | 2 | 1 |
| TDY Industries, LLC | March 1, 2014 | March 31, 2015 | 0 | 0 | 1 | 1 | 2 | 2 |
| Ultra Wash of Philadelphia | April 1, 2013 | March 31, 2016 | 0 | 0 | 0 | 0 | 4 | 4 |
| Unique Pretzel Bakery | October 1, 2012 | September 30, 2015 | 0 | 0 | 2 | 2 | 2 | 2 |
| Van Bennett Food Company | October 1, 2012 | September 30, 2015 | 0 | 0 | 2 | 2 | 4 | 4 |
| WORLD electronics | January 1, 2014 | December 31, 2016 | 0 | 0 | 3 | 2 | 2 | 2 |
| Total | | | 0 | 0 | 22 | 22 | 35 | 32 |

NOTES:

APPENDIX 3

INCREASED INDUSTRIAL SAMPLING

INCREASED INDUSTRIAL SAMPLING FOR 2014

| INDUSTRY (SIU) | Additional City Sampling Performed | Parameters Tested | Number of Extra Tests | Additional Self Monitoring Sampling Performed | Parameters Tested | Number of Extra Tests |
|-----------------------------------|------------------------------------|--------------------------|-----------------------|---|----------------------|-----------------------|
| Akzo Nobel Powder Coatings | | | | 2 | zinc | 2 |
| Aramark Uniform Services | | | | | | |
| Berks Packing Company | | | | 4 | oil and grease (HEM) | 4 |
| Bimbo Bakeries outfall 001 | | | | | | |
| outfall 002 | | | | 2 | oil and grease (HEM) | 2 |
| Car Wash Partners | | | | | | |
| Carpenter Technology Outfall 002 | | | | 4 | copper | 4 |
| Outfall 003 | 1 | oil and grease (HEM) | 1 | | | |
| Outfall 003 | 1 | oil and grease (SGT-HEM) | 1 | | | |
| Clover Farms Dairy | | | | | | |
| Crescent Brass Manufacturing | 2 | mercury | 2 | | | |
| Crossroads Beverage Group | | | | | | |
| Cryovac Food Packaging Division | | | | | | |
| Dairy Farmers of America | | | | | | |
| Evergreen Community Power | | | | | | |
| Exide Technologies | | | | | | |
| Hofmann Industries | | | | 8 | chromium, zinc | 8 |
| IFS Industries | | | | 2 | oil and grease (HEM) | 2 |
| Interstate Container | | | | | | |
| Lentz Milling | | | | | | |
| National/Yorgey's Cleaners | 2 | pH | 2 | | | |
| Packaging Corp. of America | | | | | | |
| Prizer Painter Stove Works | | | | 1 | pH | 1 |
| Quadrant EPP USA | | | | | | |
| Quaker Maid Meats outfall 003 | 2 | oil and grease (HEM) | 2 | | | |
| outfall 004 | | | | | | |
| Reading Eagle Company | | | | | | |
| Reading Plating & Polishing Works | | | | | | |
| Reading Truck Body | | | | | | |
| Reitech Corporation | | | | | | |
| Savor Street Foods Inc | 2 | mercury | 2 | 1 | pH | 1 |
| Sealed Air Corporation | | | | 1 | pH | 1 |
| St Joseph Downtown-outfall 005 | | | | | | |
| St Joseph Downtown-outfall 006 | | | | | | |

INCREASED INDUSTRIAL SAMPLING FOR 2014

| INDUSTRY (SIU) | Additional City Sampling Performed | Parameters Tested | Number of Extra Tests | Additional Self Monitoring Sampling Performed | Parameters Tested | Number of Extra Tests |
|--------------------------------|---|----------------------|-----------------------------|--|----------------------|-----------------------------|
| Summit Steel and Manufacturing | | | | | | |
| Sun Rich Fresh Foods | | | | | | |
| Sweet Street Desserts | | | | | | |
| Termaco USA | | | | | | |
| Tom Sturgis Pretzels | | | | | | |
| United Corstack | | | | | | |
| Yuasa Battery | | | | | | |

INCREASED INDUSTRIAL SAMPLING FOR 2014

| INDUSTRY (non-SIU) | Additional City Sampling Performed | Parameters Tested | Number of Extra Tests | Additional Self Monitoring Sampling Performed | Parameters Tested | Number of Extra Tests |
|----------------------------|---|----------------------|-----------------------------|--|----------------------|-----------------------------|
| Air Liquide | | | | | | |
| Akzo Nobel-R&D Lab | | | | | | |
| Diesel Service | | | | | | |
| NGK Metals Corporation | | | | | | |
| Paragon Optical | | | | | | |
| Pennsylvania Truck Centers | | | | | | |
| Penske Truck Leasing | 2 | zinc | 2 | 1 | zinc | 1 |
| Remcon Plastics | 3 | copper, zinc | 3 | 1 | zinc | 1 |
| Ultra Wash of Philadelphia | | | | | | |
| Unique Pretzel Bakery | | | | | | |
| Van Bennett Food Company | 1 | oil and grease (HEM) | 1 | | | |
| WORLD electronics | | | | | | |

APPENDIX 4

FACILITIES IN SNC FOR 2014 THAT WERE ALSO IN SNC FOR 2013

Significant Industrial Users in SNC for 2014 that were also in SNC for 2013

| <u>Facility</u> | <u>Reason for Significant Non-Compliance</u> | | <u>Status at the end of 2014</u> |
|---|---|---|---|
| | <u>2013</u> | <u>2014</u> | |
| Crescent Brass Manufacturing Company | TRC and chronic copper TRC copper Failure to report violation x 2 | TRC mercury Failure to report violation x 2 Failure to resample x 2 | Compliance |

Non Significant Industrial Users in SNC for 2014 that were also in SNC for 2013

| <u>Facility</u> | <u>Reason for Significant Non-Compliance</u> | | <u>Status at the end of 2014</u> |
|--------------------------|---|--|---|
| | <u>2013</u> | <u>2014</u> | |
| Van Bennett Food Company | Failure to resample | TRC oil and grease (HEM) Late self monitoring report Failure to report permit violation Failure to resample | Compliance |

APPENDIX 5

NEWSPAPER LISTING OF SIGNIFICANT VIOLATORS

Lost and Found

BLACK & WHITE CAT STILL LOST
Missing for 5 years,
Union Township area
Any info.: 610-582-8789

FOUND: cat on Liberty St.
(off Lancaster Ave.)
Shillington, 610-796-4258

LOST: Solid white CAT,
green eyes, pink collar,
Evershot/other areas.
REWARD: 484-333-3439

Ser Service Directory

Professional Services

Career Consulting & Resume Prep - I will be able to address your unique career improvement needs. Contact us now at 610-334-7151 or roy@benswoodr.com

Legal Services

\$219 DIVORCE TOTAL!
No-Fault Uncontested Free Info. Divorce Law, No Travel. 1-800-486-4070, 24hrs.

Notice

PUBLIC NOTICE
As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA00026548, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the associated permit requirements (40 CFR 403.43).
Part 403.43(a)(2)(ii) of the General Regulations as well as Section 8 of the City of Reading's Sewer Use Ordinance 17-99, requires annual publication of a list of all industrial users which were in significant non-compliance during the previous twelve months starting January 1, 2014 to December 31, 2014 along with their compliance status as follows:
1. Closure Court
Sinking Spring, PA 19608
City of Reading Industrial Waste Permit No. 808
Nature of violation:
2nd Quarter-Failure to report a permit violation and failure to resume.
Current compliance status:
In May, the company had wastewater samples taken and tested as outlined in their industrial waste discharge permit. The results showed an oil and grease as performed as SGT-HM violation. The violation was reported in the company's second quarter self monitoring report, but not within 24 hours of knowledge of the violation as required by the discharge permit. In addition, while another test for the parameter in violation was scheduled and taken, the sample results did not resample the City within 30 days as required in the discharge permit. The company returned to compliance in the next quarter and remains in compliance as of the end of 2014.

Grove Farms Dairy
3300 Portola Drive
Reading, PA 19602
City of Reading Industrial Waste Permit No. 471
Nature of violation:
2nd Quarter-Failure to report a permit violation.
Current compliance status:
June self monitoring samples showed a pH violation which was reported on the quarterly self monitoring report and not within 24 hours of gaining knowledge of the violation as required by the discharge permit. This violation was the only one during the year that placed the company in SNG, as the company was not required to resume in this instance. The company has returned to compliance.

Crescent Brass Manufacturing Company
701 Park Avenue
Reading, PA 19611
City of Reading Industrial Waste Permit No. 730
Nature of violation:
2nd Quarter - TRC violation of the mercury limit listed in its permit.
Failure to report 2 permit violations.
2 Failure to resume.
The company submitted their second quarter self monitoring report past the due date as required in its discharge permit. The report indicated a copper and a mercury violation during May self monitoring sampling, neither of which were reported within 24 hours of knowledge of the violation as required by the discharge permit. In addition, the company never took any additional samples and reported the results as required by their permit. Extra samples were taken by the City and, as a result, the company returned to compliance.

IRS Industries, Inc.
403 Clinton Avenue
Reading, PA 19611
City of Reading Industrial Waste Permit No. 79F
Nature of violation:
2nd Quarter-Failure to report 2 permit violations.
Current compliance status:
The company submitted its second quarter self monitoring report in a timely fashion. Monthly oil and grease samples for HEM and SGT-HM were taken as required by the discharge permit. The report indicated that both the May June oil and grease samples were taken within the violation of the discharge permit. However, the results were reported within 24 hours of gaining knowledge of the violations as per the company's discharge permit. The company has returned to compliance.

National Toner's Cleaners
1700 Fairview Street
Reading, PA 19608
City of Reading Industrial Waste Permit No. 84
Nature of violation:
2nd Quarter-TRC and chronic violation of the pH limit listed in its permit.
3rd Quarter-TRC and chronic violation of the pH limit listed in its permit.
4th Quarter-TRC and chronic violation of the pH limit listed in its permit.
Current compliance status:
During normal City industrial sampling in April, a pH violation was noted. Two additional samples were taken in an attempt to keep the industry out of SNG. These two samples also showed a pH violation. The company made changes to their process hoping that the changes would eliminate the violations. However, a pH violation was reported within 24 hours of gaining knowledge of the violations as per the company's discharge permit. The company has returned to compliance.

Prize Painter Stove Works, Inc.
500 Arlington Avenue
Reading, PA 19611
City of Reading Industrial Waste Permit No. 24H
Nature of violation:
2nd Quarter-Failure to report a permit violation.
Current compliance status:
In June, a self monitoring sample showed a pH violation. A repeat pH sample was within the company's permit limits. However, the pH sample was not reported to the City within 24 hours of gaining knowledge of it. As this was the only violation during the course of the year, the company has returned to compliance.

Summit Steel and Manufacturing
1006 Patriot Parkway
Reading, PA 19602
City of Reading Industrial Waste Permit No. 81B
Nature of violation:
3rd and 4th Quarter-TRC violation of monthly zinc limit listed in its permit.
Failure to report permit violation.
Failure to resume.
The results of the company's September self monitoring testing indicated a TRC violation of the monthly limit zinc. The industry is categorical which is why it has a maximum daily limit for zinc as well as a maximum monthly limit. Due to the nature of the business process, very little waste is generated. There was only one additional sample taken after the September sample and that was a routine City sample in November. The results of the November sample were well below both the daily and the monthly limits. Unfortunately, the inability to take any additional samples during the violation carried over into the fourth quarter. The company was in SNG for the fourth quarter and remained in SNG at the end of 2014.

Business Opportunities

RESTAURANT FOR SALE OR LEASE:
Also avail. as land lease.
Buy highway Rt. 222, former Kirbyville Inn. On-site water & sewer. Plenty of parking. \$2500 NNN or \$195,000. 610-223-0921

Ins Instructions

"Can You Dig It?" Heavy Equipment Operator Training!
3 Week Program
VA Benefits Eligible! (866) 941-8071

Landscaping/Lawn Care
For meticulous quality shrub work & ornamental tree pruning, check: justus@us.com then call Rich on the land line 610-376-2588...you'll be glad you did

Fin Financial

Business Opportunities

FOOD TRUCK, \$20,000.
2003 Ford E450, tripart V8, alloy body, 55, 4 sinks + work tops custom hood with exhaust fan, 2 fridges, freezer, flattop, microwave, fluorescent lighting, DFI, fryer, current resp. Weiboro, PA 610-389-2433

REAL ESTATE EDUCATION CENTER
INTERESTED IN A REAL ESTATE CAREER
Best Value for your Real Estate Education!
Experience the difference Personalized Instruction! Real Estate Professionals Offering Real Estate Classes for 15 years

New local classes starting soon!
Call Today!
1-866-244-6866 (toll free)

Pet Pets & Livestock

Pets, Services/Supplies

AKC GERMAN SHEP PUPS
S&W. Vet chkd. OFA cert. Excell. hip-parents. Euro-sean bloodline. 1 female \$1200. Has training. 717-529-6213

AKC Longhaired Mini Dachshund female, black & tan. \$400. 610-987-3632

BEAGLE PUPS AKC 2 adorable females 8 weeks. Trn colored. 1st shots & wormed. Ready now. \$425 each. Call 717-821-2935

CHIHUAHUA PUPPIES Long-haired. Call 610-763-5374

Female English Bulldog PUP: AKC Reg. Vet. Ch'd. Very cute, loves people. \$1900. 484-650-1582

German Shepherd Pups for sale. Registered German bloodline, ready to go 1st wk of April. 6800. 717-529-0162

ADD A COLOR PHOTO TO YOUR AD!
Homes, pets, items for sale...call to ask about our specials!

Pets, Services/Supplies

Toy poodle, 5 y.o. male, black & white in color. \$150. Call 717-866-7559

DOG TRAINING

Berks County Dog Training
Basic Obedience Class \$105 for 8-week class & club membership for all 2015. Classes Mondays or Tuesdays at 7 p.m. Register by April 15. For ages 6 mos +

PUPPY CLASS
BCTC will offer the AKC S.T.A.R. Puppy Program for pups ages 12 weeks to 6 mos. Classes will be held Wednesdays at 7 p.m.

MANNERS CLASS
This is for dogs who haven't gotten off to a good start and need work before entering an obedience class. Cost is \$140 and includes 8-week class followed by the 8-week basic class.

Orientation for all 3 classes is Tuesday, April 21, 7 p.m. WITHOUT SCOPES
All classes are limited to 12 and will be held outdoors at the Liberty Fire Co grounds in Sinking Spring. Membership is a free class of the year after graduation. Visit berksdogtraining.org for more information & forms or call 610-670-7009 & leave your information for a form to be mailed.

GREEN HILLS AUCTION
Sales Mondays at 5:00 am 610-856-2000

HORNING FARM AGENCY
Auctions/Realtors/Appraisers Morgantown 610-286-5181

HORST AUCTION CENTER
Ephrata 717-738-3080 www.horstauction.com

NOTICE OF LIEN SALE
Kutztown Self Storage 50 Apple Alley Kutztown, PA 19530 (610-737-5509)

Mer Merchandise

PLEASE RECYCLE:
Use a bin to recycle: AC, AC units, microwaves, dehumidifiers. 610-823-5918 mydofido101@aol.com

Articles for Sale
\$150 Queen P-TOP MATTRESS SET. Made in USA. New in plastic. Text or call 610-451-8823

2 section (10' W) L-shaped metal shed with dark top. X-cond. you remove \$500. Emmons: 484-358-6100

A&B Utility Trailer, X-cond. New enclosed steel frame, wood sides. \$775. Emmons: 484-358-6100

Full size MATTRESS SET - New in plastic. \$150. Call or text 610-451-8823.

GE 24" stackable washer/dryer, very good cond. Srs old. 12 Frig. 610-678-6706

JAZZY Select Elite Power Chair - 12 Frig. 610-678-6706

LINC. 140 Pro Mig Welder: 120V, 115V, 110V, 5375. QUICKIE 2nd. adult. hitch. \$300. 610-582-8163

MATCHING rectangular cocktail table & 2 sd. end tables (with permanent stone tile inserts on entire tops). Like new. \$500. Text or call 610-777-6306

Singer Touch & Sew sewing mach. in cabinet, set 525; octagon game table 325; cherry TV stand 500; antique white 4 drawer dresser 225. 610-856-5126

SINGLE Bed w/leaky Posturepedic boxspring - 12 Frig. 610-678-6706

Spinning Gigs
Don't be the next crime victim!
20 million thefts turn gun wildlife pin and one 1/2 oz. key chain pepper spray. \$400. Avail. in various colors. Call me now 484-794-7515

Law & Garden
Top soil \$17, screened \$22/2yd. Mulch \$21/2yd. Fill dirt/shale \$5/ton. 2000lb. bags of potting soil \$20. Mulch \$20 a bag. Call 610-795-5037

Musical Instruments
** Glenskens Music ** Piano Tuning & Repair Call 610-737-2609

MU Fender Strat w/loyd rose & Martin 000 CDE. \$400. 634-448-7299

Wanted to Buy
OBYVING Antiques/collectibles item to contents. Moving or downsizing. 484-529-0851

Antiques/Furn. Glaswegian 19th C. 610-372-1681

BUYING COSTUME JEWELRY & ANTIQUES. Watches, Old Postcards, Civil War Military Items, Art & Basement Items. CHRIS 610-670-5232

WANTED
• LEG BOOK COLLECTIONS
• OLD BOOKS
• OLD TOYS
• All fair prices
• Very good cond. reqd.
• 610-378-6645
• glennadivbooks@comcast.net

Auc Auctions

Auctioneers

ABSOLUTELY ALWAYS OLEY VALLEY AUCTION CO.
610-987-9080, 610-987-3587

Allen & Ron Robson Auctions
610-382-4818 or 610-388-3337

CATHY M. PENNYPACKER
Auctioneer - 610-777-6121

DICK HENRY AUCTIONEER/REALTOR
610-858-3065

GREEN HILLS AUCTION
Sales Mondays at 5:00 am 610-856-2000

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• OLD BOOKS
• OLD TOYS
• All fair prices
• Very good cond. reqd.
• 610-378-6645
• glennadivbooks@comcast.net

Sealed Proposal

REQUEST FOR PROPOSAL CLEANING CONTRACT

The Township of Robeson is evaluating service providers to perform janitorial activities pertaining to cleaning services for all facilities noted in the request for proposal (RFP). The award is a one-year contract beginning May 1, 2015 and ending April 30, 2016. An option to extend the contract is at the sole discretion of the Board of Supervisors.

Bidders may obtain specifications of bidding documents at www.robsonpa.org or at the Robeson Township Administrative Offices located at 8 Boonetown Road, Birdsboro, PA 19508. Questions regarding bid documents should be directed to Thomas C. Keim, Township Manager, at 610-582-4636 or by e-mail at tk@robsonpa.org.

A mandatory on-site facility tour will be held on April 9, 2015 at 1:00PM beginning at the Robeson Township Police Department located at 2085 Main Street, Birdsboro, PA 19508. Interested bidders shall RSVP for the on-site facility tour no later than April 8, 2015 by 3:30PM to the Township Manager at (610) 582-4636 or by e-mail at tk@robsonpa.org.

All proposals are due promptly by 3:30PM local prevailing time on April 16, 2015 and shall be sealed and clearly marked "CLEANING CONTRACT RFP". All proposals must be irrevocable for sixty (60) days following the bid opening date. References shall be submitted in a separate sealed envelope clearly marked "Confidential: References-CRFP".

This separate sealed envelope shall be attached to the proposal with the "Cleaning Contract RFP". All proposals must be forwarded by mail, the sealed proposal shall be enclosed in an envelope addressed to:

Township Manager
Robeson Township
2085 Main Street
Birdsboro, PA 19508

Bids will be opened and read at the Robeson Township Board of Supervisors Workshop on April 16, 2015 at approximately 7:00PM. Award of the bid will take place at the Board of Supervisors Regular Meeting held April 21, 2015 at approximately 7:00PM. Robeson Township reserves the right to reject any or all bids and to waive any or all defects, errors, omissions, irregularities, or informalities in any bid for the best interests of the Township.

Thomas C. Keim
Township Manager
Robeson Township

The Reading Muhlenberg Career & Technology Center is soliciting bids for the instructional equipment listed below. Sealed bids will be received by the school at 2615 Warren Rd., Reading, PA 19604, until 1 PM, prevailing time on Wednesday, April 8, 2015.

Dental Equipment
Bids may be mailed to the Office of the Acting Business Office Supervisor, 2615 Warren Rd., Reading, PA 19604. The envelope should be clearly marked accordingly. Bids will be opened at 3 PM on Wednesday, April 8, 2015 in the Main Office.

Specifications can be obtained by contacting the school at (610) 921-7309 or in the Business Office at the above address Monday through Friday, from 8:30 AM to 3:30 PM, prevailing time.

The Reading Muhlenberg Career & Technology Center reserves the right to reject any or all proposals or parts thereof, or to waive any defects or irregularities in the proposal.

Rebecca Acosta, Secretary
Joint School Committee

A Pre-Bid meeting will be held at the Fleetwood Area Middle School on April 15, 2015 at 2:30 PM and at Andrew Maier Elementary School on April 8, 2015 at 3:30 PM.

The project is subject to the provisions of the Pennsylvania Human Relations Act, P.L. 744 and the Pennsylvania Prevailing Wage Acts.

Bidders shall refer to the provisions of Federal and State Regulations and Regulations dealing with the prevention of environmental pollution and the preservation of public, natural resources that affect the project, and submit provisions being submitted as part of the proposal.

The Fleetwood Area School Board reserves the right to reject any or all bids.

This publication never knowingly publishes advertising that is unlawful, fraudulent or misleading and has adopted standards for acceptance or rejection of advertising. We strive to promote ethical business practices in the marketplace and to serve the best interest of the public. If you have questions as to the legitimacy of an advertisement offer or claim, it is recommended that you contact the Better Business Bureau to check on the reliability of the firm placing the ad.

The Better Business Bureau can be reached weekdays between the hours of 10:00 A.M. and 4:00 P.M. at 610-866-8780.

Sealed Proposal

ADVERTISING FOR BIDS

Sealed proposals will be received by the Fleetwood Area School District in Fleetwood, Pennsylvania, on or before April 16, 2015 at 1:30 PM at the Fleetwood Area School District Office, 801 N. Richmond Street, Fleetwood, PA 19530. Proposals shall be submitted to the attention of Mr. Kerry Strider.

Bids will be received on the following:

A. Combined Bid for: Andrew Maier Elementary School - Mechanical and Electrical Upgrades

B. Bid for Andrew Maier Elementary School - Electrical Upgrades

C. Bid for Fleetwood Middle School - Mechanical and Electrical Upgrades

D. Bid for Richmond Elementary School - Electrical Upgrades

No Proposal may be withdrawn for period of thirty (30) days after the scheduled bid opening for the receipt of Proposals.

The successful bidder will be required to furnish and pay for satisfactory performance and payment bond or bonds in an amount equal to one hundred percent (100%) of the contract price within ten (10) days after the Contract has been awarded, and may also be required to furnish a Certificate of Qualification Statement.

The bid shall be accompanied by a certified check, bank cashier's check or cash bond payable to Fleetwood Area School District in an amount not less than ten (10) percent of the bid price.

Bidding Documents may be secured by bona-fide bidders on or after March 24, 2015 from Moore Engineering Company, A \$25 non-refundable fee is required for the documents which include a CD of the Plans and Specifications, All Bidders are required to purchase Bid Documents from Moore Engineering Company or their bids can be rejected. Plans can be rejected. Plans can be rejected. Plans can be rejected.

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PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2014 to December 31, 2014 along with their current compliance status is as follows:

Car Wash Partners dba Mister Car Wash

1 Cloister Court

Sinking Spring, PA 19608

City of Reading Industrial Waste Permit No. 80B

Nature of violation:

2nd Quarter-Failure to report a permit violation and failure to resample

Current compliance status:

In May, the company had wastewater samples taken and tested as outlined in their industrial waste discharge permit. The test results showed an oil and grease as performed as SGT-HEM violation. The violation was reported in the company's second quarter self monitoring report, but not within 24 hours of knowledge of the violation as required by the discharge permit. In addition, while another test for the parameter in violation was scheduled and taken, the sample was not taken and reported to the City within 30 days as required in the discharge permit. The company returned to compliance in the next quarter and remains in compliance as of the end of 2014.

Clover Farms Dairy

3300 Pottsville Pike

Reading, PA 19605

City of Reading Industrial Waste Permit No. 47I

Nature of violation:

2nd Quarter-Failure to report a permit violation

Current compliance status:

June self monitoring samples showed a pH violation which was reported on the quarterly self monitoring report and not within 24 hours of gaining knowledge of the violation as required in the discharge permit. This violation was the only one during the year that placed the company in SNC, as the company was not required to resample in this instance. The company has returned to compliance.

Crescent Brass Manufacturing Company

701 Park Avenue

Reading, PA 19611

City of Reading Industrial Waste Permit No. 73G

Nature of violation:

2nd Quarter - TRC violation of the mercury limit listed in its permit

2 Failure to report a permit violation

2 Failure to resample

Current compliance status:

The company submitted their second quarter self monitoring report past the due date as required in its discharge permit. The report indicated a copper and a mercury violation during May self monitoring sampling, neither of which were reported within 24 hours of knowledge of the violation as required by their permit. In addition, the company never took any additional samples and reported the results as required by their permit. Extra samples were taken by the City and, as a result, the company returned to compliance.

IFS Industries. Inc.

400 Orrton Avenue

Reading, PA 19611

City of Reading Industrial Waste Permit No. 79F

Nature of violation:

2nd Quarter-Failure to report 2 permit violations

Current compliance status:

The company submitted its second quarter self monitoring report in a timely fashion. Monthly oil and grease samples for HEM and SGT-HEM were taken as required by the discharge permit. The report indicated that both the May and June oil and grease HEM samples were in violation of the discharge permit. Neither of these violations were reported within 24 hours of gaining knowledge of the violations as per the company's discharge permit. The company has returned to compliance.

National/Yorgey's Cleaners

1700 Fairview Street

Reading, PA 19606

City of Reading Industrial Waste Permit No. 6H

Nature of violation:

2nd Quarter-TRC and chronic violation of the pH limit listed in its permit

3rd Quarter-TRC and chronic violation of the pH limit listed in its permit

4th Quarter-TRC and chronic violation of the pH limit in its permit

Current compliance status:

During normal City industrial sampling in April, a pH violation was noted. Two additional samples were taken in an attempt to keep the industry out of SNC. These two samples also showed a pH violation. The company made changes to their process hoping that the changes would eliminate the violations. However, a pH violation occurred during normal City sampling in July and during self monitoring sampling in December. Therefore, the company remained in SNC at the end of 2014.

Prizer Painter Stove Works, Inc.

600 Arlington Avenue

Reading, PA 19611

City of Reading Industrial Waste Permit No. 24H

Nature of violation:

2nd Quarter-Failure to report a permit violation

Current compliance status:

In June, a self monitoring sample showed a pH violation. A repeat pH sample was within the company's permit limits. However, the violation was not reported to the City within 24 hours of gaining knowledge of it. As this was the only violation during the course of the year, the company has returned to compliance.

Summit Steel and Manufacturing

1005 Patriot Parkway

Reading, PA 19605

City of Reading Industrial Waste Permit No. 81B

Nature of violation:

3rd and 4th Quarter-TRC violation of monthly zinc limit listed in its permit

Failure to report permit violation

Failure to resample

Current compliance status:

The results of the company's September self monitoring testing indicated a TRC violation of the monthly limit of zinc. This industry is categorical which is why it has a maximum daily limit for zinc as well as a maximum monthly limit. Due to the nature of the business process, very little waste water is generated. There was only one additional sample taken after the September sample and that was a routine City sample in November. The results of the November sample were well below both the daily and the monthly limits. Unfortunately, the inability to take any more samples meant that the violation carried over into the fourth quarter. The company was in SNC for the fourth quarter and remained in SNC at the end of 2014.

Termaco USA

171 Tuckerton Road

Reading, PA 19605

Nature of violation:

4th Quarter-TRC violation of the mercury limit in its permit

Failure to report violation

Failure to resample

Current compliance status:

The company took self monitoring samples in December as required by its discharge permit. The results showed a mercury violation. All of the results were submitted to the City in the company's 4th quarter report. The company failed to report the violation within 24 hours of knowledge of the violation as required by its discharge permit nor did it resample after the violation again, as required in its discharge permit. The company remains in SNC at the end of 2014.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2014 to December 31, 2014 along with their current compliance status is as follows:

Penske Truck Leasing

255 Penske Plaza

Reading, PA 19602

Nature of violation:

4th Quarter-Failure to report violation

Current compliance status:

The company's fourth quarter self monitoring report was submitted in a timely fashion as required in the discharge permit. The report showed a violation of the zinc limit. This violation was not reported to the City within 24 hours of knowledge of the violation. The company took a resample which was within the permit limits. However, since the violation was not reported until submitting their self monitoring report, the company was in SNC for the fourth quarter and remains in SNC at this time.

Remcon Plastics, Inc.
208 Chestnut Street
Reading, PA 19602
City of Reading Industrial Waste Permit No. M002E

Nature of violation:

1st Quarter-TRC and chronic violation of the zinc limit listed in its permit

2nd Quarter- TRC and chronic violation of the zinc limit listed in its permit

Current compliance status:

A zinc violation occurred during normal City testing in February. Three additional samples tested for zinc were taken by the City in March. Two of these three samples were also in violation of the company discharge permit limitations. The company took a sample to be tested for zinc during normal self monitoring testing in May. This zinc sample was also found to be in violation. The results of a resample taken in June were shown to not be in violation of the discharge permit. No additional samples were taken during the year. The company has returned to compliance.

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading, PA 19605
City of Reading Industrial Waste Permit No. M029E

Nature of violation:

3rd Quarter-TRC violation of the copper limit listed in its permit

4th Quarter-TRC and chronic violation of the copper limit listed in its permit

Current compliance status:

During a normal sampling event, a sample taken by the City in September was found to be in violation of the company's copper permit limit. Due to the limited nature of the company's discharge as well as other issues, no other samples were able to be taken during the year. The company remains in SNC as of the end of 2014.

Van Bennett Food Company, Inc
101 North Carroll Street
Reading, PA 19611
City of Reading Industrial Waste Permit No. M030E

Nature of violation:

1st Quarter - TRC oil and grease (HEM)

Submitting first quarter self monitoring results after due date

Failure to report violation

Failure to resample

Current compliance status:

The company had self monitoring samples taken in January as required by their discharge permit. The testing showed a TRC oil and grease (HEM) violation. This violation was not reported to the city within 24 hours of knowledge of the violation as required in their permit. The company failed to resample and submit those results within 30 days of the original violation. The company did not submit a copy of the test results along with their first quarter self monitoring report. The second quarter test results were submitted with the first quarter report. Results from the first quarter self monitoring testing were

submitted after their due date. In the second quarter of 2014, the company returned to and remains in compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division

Manager, or Jeffrey P. Hill, Environmental Program Coordinator, at 610-655-6121.

APPENDIX 6
ENFORCEMENT ACTIONS

2014 ENFORCEMENT ACTIONS

Significant Industrial Users

| Industry Name | Enforcement Action | | | | Nature of Violation |
|--------------------------------|---------------------|---------------------|-------------|------------------|---|
| | Compliance Schedule | Notice of Violation | Admin Order | Penalty Assessed | |
| Akzo Nobel Coatings | | 3 | | \$300 | 3 zinc |
| Aramark Uniform Services | | | | | |
| Bimbo Bakeries USA | | 1 | | \$100 | 1 oil and grease (HEM) at outfall 002 |
| Berks Packing Company | | 2 | | \$200 | 2 oil and grease (HEM) |
| Carpenter Technology | | 1 | | \$100 | 1 copper |
| Car Wash Partners | | 3 | | \$1,600 | 1 oil and grease (SGT-HEM), 1 failure to report, 1 failure to resample |
| Clover Farms Dairy | | 15 | | \$42,000 | 6 pH, 8 oil and grease (HEM), 1 failure to report violation |
| Crescent Brass Manufacturing | | 7 | | \$3,300 | 2 late reports, 1 copper, 1 mercury, 2 failures to resample, 2 failures to report |
| Crossroads Beverage | | | | | |
| Cryovac Food Packaging | | | | | |
| Dairy Farmers of America | | | | | |
| Evergreen Community Power | | | | | |
| Exide - Plant One | | | | | |
| Plant Two | | | | | |
| Reading Recycling | | | | | |
| Hofmann Industries | | 1 | | \$100 | 1 zinc-monthly average |
| IFS Industries | | 9 | | \$22,600 | 6 oil and grease (HEM), 1 oil and grease (SGT-HEM), 2 failure to report |
| Interstate Container | | | | | |
| Lentz Milling | | | | | |
| National/Yorgey's Cleaners | | 7 | | \$2,500 | 5 pH, 1 oil and grease (HEM), 1 failure to report violation |
| Packaging Corp. of America | | | | | |
| Prizer Painter Stove Works | | 3 | | \$1,200 | 2 pH, 1 failure to report |
| Quadrant EEP USA | | | | | |
| Quaker Maid Meats | | | | | |
| Reading Eagle Company | | | | | |
| Reading Plating & Polishing | | | | | |
| Reading Truck Body | | | | | |
| Reitech Corporation | | | | | |
| Savor Street Foods | | 2 | | \$200 | 1 mercury, 1 pH |
| Sealed Air Corporation | | | | \$50 | 1 late report, no NOV sent |
| St Joseph Downtown | | | | | |
| Summit Steel and Manufacturing | | 3 | | \$1,600 | 1 zinc-monthly average, 1 failure to report violation, 1 failure to resample |
| Sun Rich Fresh Foods | | | | | |

2014 ENFORCEMENT ACTIONS

Significant Industrial Users

| Industry Name | Enforcement Action | | | | Nature of Violation |
|-----------------------|---------------------|---------------------|-------------|------------------|---|
| | Compliance Schedule | Notice of Violation | Admin Order | Penalty Assessed | |
| Sweet Street Desserts | | 1 | | \$100 | 1 pH |
| Termaco USA | | 3 | | \$1,600 | 1 mercury, 1 failure to report, 1 failure to resample |
| Tom Sturgis Pretzels | | | | | |
| United Corrstack | | 1 | | \$100 | 1 oil and grease (SGT-HEM) |
| Yuasa Battery | | | | | |
| TOTAL | 0 | 62 | | \$77,650 | |

Initial fines for violations are as follows:

| | |
|--|---------|
| Failure to Report | \$1,000 |
| Failure to Resample | \$500 |
| Permit Limit violation | \$100 |
| Late report | \$50 |
| Late sampling/resampling | \$250 |
| Failure to Report Violations | \$1,000 |
| Failure to Report Monitoring Data | \$1,000 |
| Failure to maintain pretreatment records/documents on site | \$500 |

NOTES ON FINES ADMINISTERED:

Clover Farms Dairy: pH violations were fined at \$500 in the first and second quarter. Three were fined at this rate. Oil and grease was fined at \$4500 in the first and second quarter. Four were fined at this rate. pH violations were fined at \$1000 in the third and fourth quarter. Two were fined at this rate.

IFS Industries: Oil and grease (HEM) was fined at \$3000 in the first quarter. One was fined at this rate. Oil and grease (HEM) was fined at \$3500 in the second and third quarter. **Four** were fined at this rate.

National/Yorgey's Cleaners: pH violations were fined at \$100 in the second and third quarters. Four were fined at this rate. Fine was raised to \$250 in the fourth quarter. One was fined at this rate.

2014 ENFORCEMENT ACTIONS

Non-Significant Industrial Users

| Industry Name | Enforcement Action | | | | Nature of Violation |
|---------------------------------|---------------------|---------------------|-------------|------------------|---|
| | Compliance Schedule | Notice of Violation | Admin Order | Penalty Assessed | |
| Air Liquide | | | | | |
| Akzo Nobel Coatings Inc-R&D Lab | | | | | |
| Diesel Service | | | | | |
| NGK Metals Corporation | | | | | |
| Paragon Optical | | | | | |
| Pennsylvania Truck Centers | | 1 | | \$1,100 | 1 Zn, 1 failure to report |
| Penske Truck Leasing | | 1 | | \$100 | 1 Zn |
| Remcon Plastics | | 4 | | \$400 | 1 Cu, 3 Zn |
| Ultra Wash of Philadelphia | | | | | |
| Unique Pretzel Bakery | | 1 | | \$100 | 1 copper |
| Van Bennett Food Company | | 4 | | \$1,650 | 1 oil and grease (HEM), 1 late report, 1 failure to report, |
| | | | | | 1 failure to resample |
| WORLD electronics | | | | | |
| TOTAL | 0 | 11 | 0 | \$3,350 | |

Initial fines for violations are as follows:

| | |
|-----------------------------------|---------|
| Failure to Report | \$1,000 |
| Failure to Resample | \$500 |
| Permit Limit violation | \$100 |
| Late report | \$50 |
| Late sampling/resampling | \$250 |
| Failure to Report Violations | \$1,000 |
| Failure to Report Monitoring Data | \$1,000 |

APPENDIX 7

PAYMENT STATUS

City of Reading Industrial Pretreatment
Penalty Payment Status
Industrial Waste Register Bill Summary
1/1/2014 to 3/30/2015

| <u>License No.</u> | <u>Name</u> | <u>Issue Date</u> | <u>Comments</u> | <u>Billed</u> | <u>Paid</u> | <u>PaidDate</u> |
|------------------------------|------------------------------|-------------------|-----------------|-------------------|--------------------|-----------------|
| February 2014 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 337763 | CRESCENT BRASS MANUFACTURING | 02/20/2014 | | \$265.05 | -\$265.05 | 02/21/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 02/20/2014 | | \$265.05 | -\$265.05 | 02/21/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 02/20/2014 | | \$265.05 | -\$265.05 | 02/21/2014 |
| | | | | \$795.15 | -\$795.15 | |
| March 2014 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 331117 | CLOVER FARMS DAIRY | 03/24/2014 | 2013-4TH Q | \$5,000.00 | -\$5,000.00 | 04/23/2014 |
| 331089 | IFS INDUSTRIES | 03/24/2014 | 2013-4TH Q | \$3,050.00 | -\$3,050.00 | 04/10/2014 |
| 331628 | INTERSTATE CONTAINER READING | 03/24/2014 | 2013-4TH Q | \$250.00 | -\$250.00 | 04/10/2014 |
| 336996 | NATIONAL/YORGEY'S CLEANERS | 03/24/2014 | 2013-4TH Q | \$200.00 | \$0.00 | ##### |
| 331621 | PRIZER PAINTER STOVE WORKS | 03/24/2014 | 2013-4TH Q | \$50.00 | -\$50.00 | 04/22/2014 |
| 331094 | QUAKER MAID MEATS | 03/24/2014 | 2013-4TH Q | \$200.00 | -\$200.00 | 04/30/2014 |
| | | | | \$8,750.00 | -\$8,550.00 | |
| April 2014 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 337763 | CRESCENT BRASS MANUFACTURING | 04/04/2014 | | \$265.05 | -\$265.05 | 04/18/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 04/14/2014 | | \$265.05 | -\$265.05 | 04/18/2014 |
| | | | | \$530.10 | -\$530.10 | |
| June 2014 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 337763 | CRESCENT BRASS MANUFACTURING | 06/18/2014 | | \$265.05 | -\$265.05 | 06/20/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 06/18/2014 | | \$265.05 | -\$265.05 | 06/20/2014 |
| | | | | \$530.10 | -\$530.10 | |
| July 2014 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 365365 | AKZO NOBEL COATINGS | 07/14/2014 | 1ST Q 2014 | \$100.00 | -\$100.00 | 09/05/2014 |

| | | | | | | |
|--------|------------------------------|------------|------------|--------------------|--------------------|------------|
| 331620 | BERKS PACKING | 07/14/2014 | 1ST Q 2014 | \$200.00 | -\$200.00 | 08/08/2014 |
| 364195 | BIMBO BAKERIES USA, INC. | 07/14/2014 | 1ST Q 2014 | \$100.00 | -\$100.00 | 08/06/2014 |
| 334354 | CARPENTER CORPORATION | 07/14/2014 | 1ST Q 2014 | \$100.00 | -\$100.00 | 08/19/2014 |
| 331117 | CLOVER FARMS DAIRY | 07/14/2014 | 1ST Q 2014 | \$5,000.00 | -\$5,000.00 | 08/14/2014 |
| 331089 | IFS INDUSTRIES | 07/14/2014 | 1ST Q 2014 | \$3,000.00 | -\$3,000.00 | 08/04/2014 |
| 331628 | INTERSTATE CONTAINER READING | 07/14/2014 | 1ST Q 2014 | \$50.00 | -\$50.00 | 08/04/2014 |
| 331154 | PENSKE TRUCK LEASING | 07/14/2014 | 1ST Q 2014 | \$100.00 | -\$100.00 | 09/11/2014 |
| 334341 | REMCON PLASTICS INC | 07/15/2014 | 1ST Q 2014 | \$400.00 | -\$400.00 | 08/08/2014 |
| 331097 | SEALED AIR CORP | 07/15/2014 | 1ST Q 2014 | \$50.00 | -\$50.00 | 08/06/2014 |
| 338340 | VAN BENNETT | 07/15/2014 | 1ST Q 2014 | \$1,650.00 | \$0.00 | ##### |
| | | | | \$10,750.00 | -\$9,100.00 | |

August 2014

FINES - 54-07-00-3622

| | | | | | | |
|--------|------------------------------|------------|--|-----------------|------------------|------------|
| 337763 | CRESCENT BRASS MANUFACTURING | 08/12/2014 | | \$265.05 | -\$265.05 | 09/05/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 08/12/2014 | | \$265.05 | -\$265.05 | 09/05/2014 |
| | | | | \$530.10 | -\$530.10 | |

September 2014

FINES - 54-07-00-3622

| | | | | | | |
|--------|--------------------------------|------------|------------|--------------------|---------------------|------------|
| 365365 | AKZO NOBEL COATINGS | 09/24/2014 | 2014-2ND Q | \$100.00 | -\$100.00 | 10/22/2014 |
| 341901 | CAR WASH PARTNERS DBA MISTER C | 09/24/2014 | 2014-2ND Q | \$1,600.00 | -\$1,600.00 | 10/30/2014 |
| 331117 | CLOVER FARMS DAIRY | 09/24/2014 | 2014-2ND Q | \$10,500.00 | -\$10,500.00 | 10/30/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 09/24/2014 | 2014-2ND Q | \$3,250.00 | \$0.00 | ##### |
| 372043 | CROSSROADS BEVERAGE GROUP | 09/24/2014 | 2014-2ND Q | \$50.00 | -\$50.00 | 10/29/2014 |
| 331089 | IFS INDUSTRIES | 09/24/2014 | 2014-2ND Q | \$12,600.00 | -\$12,600.00 | 10/29/2014 |
| 331628 | INTERSTATE CONTAINER READING | 09/24/2014 | 2014-2ND Q | \$50.00 | \$0.00 | ##### |
| 336996 | NATIONAL/YORGEY'S CLEANERS | 09/24/2014 | 2014-2ND Q | \$300.00 | \$0.00 | ##### |
| 331621 | PRIZER PAINTER STOVE WORKS | 09/24/2014 | 2014-2ND Q | \$1,100.00 | -\$1,100.00 | 10/24/2014 |
| 334341 | REMCON PLASTICS INC | 09/24/2014 | 2014-2ND Q | \$100.00 | -\$100.00 | 10/30/2014 |
| 331082 | SWEET STREET DESSERTS | 09/24/2014 | 2014-2ND Q | \$100.00 | -\$100.00 | 10/21/2014 |
| 337711 | WORLD ELECTRONICS | 09/24/2014 | 2014-2ND Q | \$50.00 | -\$50.00 | 10/15/2014 |
| | | | | \$29,800.00 | -\$26,200.00 | |

October 2014

FINES - 54-07-00-3622

| | | | | | | |
|--------|------------------------------|------------|--|-----------------|------------------|------------|
| 337763 | CRESCENT BRASS MANUFACTURING | 10/29/2014 | | \$265.05 | -\$265.05 | 11/06/2014 |
| | | | | \$265.05 | -\$265.05 | |

December 2014

FINES - 54-07-00-3622

| | | | | | |
|--------|------------------------------|------------|-----------------|------------------|------------|
| 337763 | CRESCENT BRASS MANUFACTURING | 12/03/2014 | \$265.05 | -\$265.05 | 12/16/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 12/15/2014 | \$530.10 | \$0.00 | ##### |
| | | | <u>\$795.15</u> | <u>-\$265.05</u> | |

January 2015**FINES - 54-07-00-3622**

| | | | | | | |
|--------|--------------------------------|------------|------------|--------------------|---------------------|------------|
| 365365 | AKZO NOBEL COATINGS | 01/09/2015 | 2014-3RD Q | \$100.00 | -\$100.00 | 02/18/2015 |
| 331117 | CLOVER FARMS DAIRY | 01/09/2015 | 2014-3RD Q | \$22,000.00 | -\$22,000.00 | 02/18/2015 |
| 337763 | CRESCENT BRASS MANUFACTURING | 01/30/2015 | | \$530.10 | -\$530.10 | 02/05/2015 |
| 331089 | IFS INDUSTRIES | 01/09/2015 | 2014-3RD Q | \$7,000.00 | -\$7,000.00 | 02/18/2015 |
| 331628 | INTERSTATE CONTAINER READING | 01/09/2015 | 2014-3RD Q | \$50.00 | \$0.00 | ##### |
| 336996 | NATIONAL/YORGEY'S CLEANERS | 01/09/2015 | 2014-3RD Q | \$100.00 | \$0.00 | ##### |
| 331621 | PRIZER PAINTER STOVE WORKS | 01/09/2015 | 2014-3RD Q | \$100.00 | -\$100.00 | 02/05/2015 |
| 346650 | SUMMIT STEEL AND MANUFACTURING | 01/09/2015 | 2014-3RD Q | \$1,600.00 | \$0.00 | ##### |
| 345103 | SUN RICH FRESH FOODS INC | 01/09/2015 | 2014-3RD Q | \$50.00 | -\$50.00 | 02/26/2015 |
| 337715 | UNIQUE PRETZELS | 01/09/2015 | 2014-3RD Q | \$100.00 | -\$100.00 | 01/28/2015 |
| 337713 | UNITED CORRSTACK | 01/09/2015 | 2014-3RD Q | \$100.00 | -\$100.00 | 01/28/2015 |
| 338340 | VAN BENNETT | 01/09/2015 | 2014-3RD Q | \$50.00 | \$0.00 | ##### |
| | | | | <u>\$31,780.10</u> | <u>-\$29,980.10</u> | |

March 2015**FINES - 54-07-00-3622**

| | | | | | |
|--------|------------------------------|------------|-----------------|------------------|------------|
| 337763 | CRESCENT BRASS MANUFACTURING | 03/03/2015 | \$530.10 | -\$530.10 | 03/23/2015 |
| | | | <u>\$530.10</u> | <u>-\$530.10</u> | |

| | | |
|--------------------|--------------------|---------------------|
| <u>Grand Total</u> | <u>\$85,055.85</u> | <u>-\$77,275.75</u> |
|--------------------|--------------------|---------------------|

NOTES: December - Crescent Brass Manufacturing appears in other reports as an adjustment or amount entered in error, not unpaid

| | | |
|-------------------------------|--------------------|----------------------|
| <u>Corrected Grand Total:</u> | <u>\$84,525.75</u> | <u>(\$77,275.75)</u> |
|-------------------------------|--------------------|----------------------|

03/30/2015

FWW002

City of Reading Industrial Pretreatment

Penalty Payment Status

Industrial Waste Register Bill Summary

1/1/2013 to 12/31/2013

| <u>License No.</u> | <u>Name</u> | <u>Issue Date</u> | <u>Comments</u> | <u>Billed</u> | <u>Paid</u> | <u>PaidDate</u> |
|------------------------------|--------------------------------|-------------------|-----------------|--------------------|---------------------|-----------------|
| January 2013 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 337759 | AIR LIQUIDE | 01/09/2013 | 3RD Q 2012 | \$100.00 | -\$100.00 | 01/24/2013 |
| 337760 | BACHMAN COMPANY | 01/09/2013 | 2012-3RD Q | \$100.00 | -\$100.00 | 02/06/2013 |
| 364195 | BIMBO BAKERIES USA, INC. | 01/09/2013 | 2012-3RD Q | \$100.00 | -\$100.00 | 02/14/2013 |
| 341901 | CAR WASH PARTNERS DBA MISTER C | 01/09/2013 | 2012-3RD Q | \$600.00 | -\$600.00 | 01/31/2013 |
| 331117 | CLOVER FARMS DAIRY | 01/09/2013 | 2012-3RD Q | \$28,250.00 | -\$28,250.00 | 02/14/2013 |
| 337763 | CRESCENT BRASS MANUFACTURING | 01/23/2013 | | \$265.05 | -\$265.05 | 01/24/2013 |
| 331628 | INTERSTATE CONTAINER READING | 01/09/2013 | 2012-3RD Q | \$200.00 | -\$200.00 | 03/28/2013 |
| 331094 | QUAKER MAID MEATS | 01/09/2013 | 2012-3RD Q | \$100.00 | -\$100.00 | 02/28/2013 |
| 340271 | READING TRUCK BODY LLC | 01/09/2013 | 2012-3RD Q | \$50.00 | -\$50.00 | 02/05/2013 |
| 337710 | YUASA BATTERY INC | 01/09/2013 | 2012-3RD Q | \$1,100.00 | -\$1,100.00 | 01/31/2013 |
| | | | | \$30,865.05 | -\$30,865.05 | |
| February 2013 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 337763 | CRESCENT BRASS MANUFACTURING | 02/07/2013 | | \$265.05 | -\$265.05 | 02/14/2013 |
| | | | | \$265.05 | -\$265.05 | |
| April 2013 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 337763 | CRESCENT BRASS MANUFACTURING | 04/19/2013 | | \$265.05 | -\$265.05 | 04/30/2013 |
| 337763 | CRESCENT BRASS MANUFACTURING | 04/19/2013 | | \$265.05 | -\$265.05 | 04/30/2013 |
| | | | | \$530.10 | -\$530.10 | |
| May 2013 | | | | | | |
| FINES - 54-07-00-3622 | | | | | | |
| 365365 | AKZO NOBEL COATINGS | 05/30/2013 | 2013-1ST Q | \$200.00 | -\$200.00 | 07/15/2013 |
| 331155 | ARAMARK UNIFORM SERVICES | 05/01/2013 | 2012-4TH Q | \$100.00 | -\$100.00 | 05/31/2013 |
| 331155 | ARAMARK UNIFORM SERVICES | 05/30/2013 | 2013-1ST Q | \$100.00 | -\$100.00 | 06/28/2013 |
| 337760 | BACHMAN COMPANY | 05/01/2013 | 2012-4TH Q | \$100.00 | -\$100.00 | 05/31/2013 |

| | | | | | | |
|--------|--------------------------------|------------|------------|--------------------|---------------------|------------|
| 331620 | BERKS PACKING | 05/01/2013 | 2012-4TH Q | \$200.00 | -\$200.00 | 05/16/2013 |
| 364195 | BIMBO BAKERIES USA, INC. | 05/30/2013 | 2013-1ST Q | \$1,950.00 | -\$1,950.00 | 07/12/2013 |
| 341901 | CAR WASH PARTNERS DBA MISTER C | 05/01/2013 | 2012-4TH Q | \$500.00 | -\$500.00 | 05/31/2013 |
| 331117 | CLOVER FARMS DAIRY | 05/01/2013 | 2012-4TH Q | \$15,500.00 | -\$15,500.00 | 05/21/2013 |
| 331117 | CLOVER FARMS DAIRY | 05/30/2013 | 2013-1ST Q | \$18,700.00 | -\$18,700.00 | 06/25/2013 |
| 365363 | DAIRY FARMERS OF AMERICA | 05/01/2013 | 2012-4TH Q | \$4,200.00 | -\$4,200.00 | 05/31/2013 |
| 338910 | HOFMANN INDUSTRIES | 05/01/2013 | 2012-4TH Q | \$300.00 | -\$300.00 | 06/14/2013 |
| 338910 | HOFMANN INDUSTRIES | 05/30/2013 | 2013-1ST Q | \$700.00 | -\$700.00 | 07/15/2013 |
| 331089 | IFS INDUSTRIES | 05/01/2013 | 2012-4TH Q | \$3,000.00 | -\$3,000.00 | 05/23/2013 |
| 331089 | IFS INDUSTRIES | 05/30/2013 | 2013-1ST Q | \$3,000.00 | -\$3,000.00 | 06/19/2013 |
| 366313 | PACKAGING CORP OF AMERICA | 05/01/2013 | 2012-4TH Q | \$50.00 | -\$50.00 | 05/31/2013 |
| 337731 | PARAGON OPTICAL | 05/01/2013 | 2012-4TH Q | \$2,000.00 | \$0.00 | ##### |
| 331154 | PENSKE TRUCK LEASING | 05/01/2013 | 2012-4TH Q | \$100.00 | -\$100.00 | 05/31/2013 |
| 331621 | PRIZER PAINTER STOVE WORKS | 05/01/2013 | 2012-4TH Q | \$150.00 | -\$150.00 | 06/11/2013 |
| 331094 | QUAKER MAID MEATS | 05/30/2013 | 2013-1ST Q | \$100.00 | -\$100.00 | 06/28/2013 |
| 340271 | READING TRUCK BODY LLC | 05/30/2013 | 2013-1ST Q | \$100.00 | \$0.00 | ##### |
| 375937 | ULTRA WASH OF PHILADELPHIA, IN | 05/30/2013 | 2013-1ST Q | \$50.00 | -\$50.00 | 06/24/2013 |
| 337713 | UNITED CORRSTACK | 05/30/2013 | 2013-1ST Q | \$100.00 | -\$100.00 | 06/20/2013 |
| 338340 | VAN BENNETT | 05/30/2013 | 2013-1ST Q | \$1,300.00 | -\$1,300.00 | 08/21/2013 |
| | | | | \$52,500.00 | -\$50,400.00 | |

June 2013

FINES - 54-07-00-3622

| | | | | | | |
|--------|------------------------------|------------|--|-----------------|------------------|------------|
| 337763 | CRESCENT BRASS MANUFACTURING | 06/04/2013 | | \$265.05 | -\$265.05 | 06/06/2013 |
| | | | | \$265.05 | -\$265.05 | |

July 2013

FINES - 54-07-00-3622

| | | | | | | |
|--------|------------------------------|------------|--|-----------------|------------------|------------|
| 337763 | CRESCENT BRASS MANUFACTURING | 07/15/2013 | | \$265.05 | -\$265.05 | 07/23/2013 |
| 337763 | CRESCENT BRASS MANUFACTURING | 07/15/2013 | | \$265.05 | -\$265.05 | 07/23/2013 |
| | | | | \$530.10 | -\$530.10 | |

September 2013

FINES - 54-07-00-3622

| | | | | | | |
|--------|-------------------------------|------------|------------|-------------|--------------|------------|
| 377019 | AKZO NOBEL COATINGS, INC. R&D | 09/19/2013 | 2013-2ND Q | \$100.00 | -\$100.00 | 10/15/2013 |
| 364195 | BIMBO BAKERIES USA, INC. | 09/19/2013 | 2013-2ND Q | \$500.00 | -\$500.00 | 10/15/2013 |
| 331117 | CLOVER FARMS DAIRY | 09/19/2013 | 2013-2ND Q | \$24,000.00 | -\$24,000.00 | 10/18/2013 |
| 337763 | CRESCENT BRASS MANUFACTURING | 09/19/2013 | 2013-2ND Q | \$2,200.00 | -\$2,200.00 | 10/21/2013 |
| 337763 | CRESCENT BRASS MANUFACTURING | 09/30/2013 | | \$265.05 | -\$265.05 | 10/09/2013 |
| 337763 | CRESCENT BRASS MANUFACTURING | 09/30/2013 | | \$265.05 | -\$265.05 | 10/09/2013 |

| | | | | | | |
|--------|------------------------------|------------|------------|--------------------|---------------------|------------|
| 365363 | DAIRY FARMERS OF AMERICA | 09/19/2013 | 2013-2ND Q | \$8,000.00 | -\$8,000.00 | 10/01/2013 |
| 331089 | IFS INDUSTRIES | 09/19/2013 | 2013-2ND Q | \$6,000.00 | -\$6,000.00 | 10/04/2013 |
| 331628 | INTERSTATE CONTAINER READING | 09/19/2013 | 2013-2ND Q | \$600.00 | -\$600.00 | 10/08/2013 |
| 338345 | LENTZ MILLING | 09/19/2013 | 2013-2ND Q | \$250.00 | -\$250.00 | 10/15/2013 |
| 336996 | NATIONAL/YORGEY'S CLEANERS | 09/19/2013 | 2013-2ND Q | \$200.00 | -\$200.00 | 01/21/2014 |
| 334341 | REMCON PLASTICS INC | 09/19/2013 | 2013-2ND Q | \$300.00 | -\$300.00 | 10/10/2013 |
| 377020 | SAVOR STREET FOODS | 09/19/2013 | 2013-2ND Q | \$50.00 | -\$50.00 | 10/15/2013 |
| 337723 | ST JOSEPH MEDICAL CENTER | 09/19/2013 | 2013-2ND Q | \$300.00 | -\$300.00 | 10/21/2013 |
| 331082 | SWEET STREET DESSERTS | 09/19/2013 | 2013-2ND Q | \$1,200.00 | -\$1,200.00 | 10/15/2013 |
| 337716 | TOM STURGIS PRETZELS INC | 09/19/2013 | 2013-2ND Q | \$100.00 | -\$100.00 | 10/18/2013 |
| 338340 | VAN BENNETT | 09/19/2013 | 2013-2ND Q | \$100.00 | -\$100.00 | 10/15/2013 |
| 337710 | YUASA BATTERY INC | 09/19/2013 | 2013-2ND Q | \$100.00 | -\$100.00 | 10/10/2013 |
| | | | | \$44,530.10 | -\$44,530.10 | |

November 2013

FINES - 54-07-00-3622

| | | | | | | |
|--------|------------------------------|------------|--|-----------------|------------------|------------|
| 337763 | CRESCENT BRASS MANUFACTURING | 11/18/2013 | | \$265.05 | -\$265.05 | 11/25/2013 |
| 337763 | CRESCENT BRASS MANUFACTURING | 11/18/2013 | | \$265.05 | -\$265.05 | 11/25/2013 |
| | | | | \$530.10 | -\$530.10 | |

December 2013

FINES - 54-07-00-3622

| | | | | | | |
|--------|--------------------------------|------------|------------|--------------------|---------------------|------------|
| 341901 | CAR WASH PARTNERS DBA MISTER C | 12/19/2013 | 2013-3RD Q | \$600.00 | -\$600.00 | 01/29/2014 |
| 334354 | CARPENTER CORPORATION | 12/19/2013 | 2013-3RD Q | \$1,600.00 | -\$1,600.00 | 04/28/2014 |
| 331117 | CLOVER FARMS DAIRY | 12/19/2013 | 2013-3RD Q | \$21,750.00 | -\$21,750.00 | 01/22/2014 |
| 337763 | CRESCENT BRASS MANUFACTURING | 12/19/2013 | 2013-3RD Q | \$100.00 | -\$100.00 | 01/29/2014 |
| 331628 | INTERSTATE CONTAINER READING | 12/19/2013 | 2013-3RD Q | \$200.00 | -\$200.00 | 01/30/2014 |
| 337726 | READING PLATING & POLISHING | 12/19/2013 | 2013-3RD Q | \$200.00 | -\$200.00 | 01/29/2014 |
| 340271 | READING TRUCK BODY LLC | 12/19/2013 | 2013-3RD Q | \$100.00 | -\$100.00 | 01/31/2014 |
| 377020 | SAVOR STREET FOODS | 12/19/2013 | 2013-3RD Q | \$100.00 | -\$100.00 | 01/29/2014 |
| 331082 | SWEET STREET DESSERTS | 12/19/2013 | 2013-3RD Q | \$50.00 | -\$50.00 | 01/14/2014 |
| 337716 | TOM STURGIS PRETZELS INC | 12/19/2013 | 2013-3RD Q | \$300.00 | -\$300.00 | 01/14/2014 |
| 337713 | UNITED CORRSTACK | 12/19/2013 | 2013-3RD Q | \$100.00 | -\$100.00 | 01/15/2014 |
| 338340 | VAN BENNETT | 12/19/2013 | 2013-3RD Q | \$50.00 | -\$50.00 | 04/10/2014 |
| | | | | \$25,150.00 | -\$25,150.00 | |

\$155,165.55 **-\$153,065.55**

APPENDIX 8

DATA MONITORING SPREADSHEET

QUARTERLY INFLUENT, EFFLUENT AND BIOSOLIDS SAMPLING

ANNUAL PRIORITY POLLUTANT SCANS ON PLANT INFLUENT, EFFLUENT AND BIOSOLIDS

PERFORMED:

| | |
|-------------|-----------|
| 9/21-22/14: | Influent |
| 9/21-22/14: | Effluent |
| 1/8/14: | Biosolids |

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 1/8/14 AND 7/2/14

FILED: 2014 SEP 22 PM 04:00 BY: [illegible]

DATA MONITORING SPREADSHEET

QUARTERLY INFLUENT, EFFLUENT AND BIOSOLIDS SAMPLING

**ANNUAL PRIORITY POLLUTANT SCANS
ON PLANT INFLUENT, EFFLUENT AND BIOSOLIDS**

PERFORMED:

| | |
|-------------|-----------|
| 9/21-22/14: | Influent |
| 9/21-22/14: | Effluent |
| 1/8/14: | Biosolids |

[illegible]

Entry Count

134 Total

5

5

5

5

5

5

5

5

5

5

5

1

5

5

5

5

13

12

12

12

9

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[illegible]

[illegible]

Entry Count

62 Total

4

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[illegible]

[illegible]

| | |
|----------------|----------------------|
| Facility Name: | CITY OF READING WWTP |
| Facility ID: | PAP026549 |

| Location: | SLUDGE | Quarterly | Quarterly | PS | PS | |
|-----------|--------------------------|------------|-----------|-----------|-----------|--|
| | Pollutant | 10/14/2014 | 11/5/2014 | 11/5/2014 | 12/3/2014 | |
| 01002 | ARSENIC- TOTAL | | 3 | 2.41 | 3.21 | |
| 01027 | CADMIUM- TOTAL | | | 3.01 | 2.89 | |
| 01034 | CHROMIUM- TOTAL | 112 | 102 | 115.5 | 191.5 | |
| 01042 | COPPER- TOTAL | | | 466.4 | 436.7 | |
| 00722 | CYANIDE- FREE (AMENABLE) | 3 | 3 | | | |
| 00720 | CYANIDE- TOTAL | 5.9 | 4 | | | |
| 01051 | LEAD- TOTAL | | | 118.5 | 95.2 | |
| 71900 | MERCURY- TOTAL | | | 1.42 | 1.18 | |
| 01062 | MOLYBDENUM- TOTAL | | | 59.7 | 50.9 | |
| 01067 | NICKEL- TOTAL | | | 60.7 | 49.6 | |
| 46000 | PHENOLS- TOTAL | 30 | 37 | | | |
| 01147 | SELENIUM- TOTAL | | | 4.37 | 4.07 | |
| 01077 | SILVER-TOTAL | 5.9 | | | | |
| 01092 | ZINC- TOTAL | | | 1565.1 | 1289.1 | |
| | Phosphorus, Total | 16400 | 15700 | | | |
| | Oil and Grease | 41690 | 32930 | | | |
| | Oil and Grease, TPH | 14350 | 10500 | | | |
| | Nitrogen Ammonia | | | | | |
| | BOD | | | | | |
| | | | | | | |
| | | | | | | |
| | PCB's | | | <0.15 | <0.15 | |
| | | | | | | |
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DTfl

Entry Count

243 Total

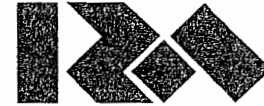
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20
16
8
8
16
16
16
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8
15
6
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8
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4

17
0
0
0
0
0
0
0
0
0
0



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M.J. Reider Associates, Inc.



1st quarter
analysis

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/28/14
Lab ID: 124-14-0007556

Date Collected: 02/20/14 08:25
Collected By: CLIENT

Sample Desc: Final 14-1628 (Composite)

Date Received: 02/21/14 15:10

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|----------|------|------------|---------------|------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 2.9 | mg/L | .5 | 10 | SM 4500P-E | 02/24 | 16:36 | ALD |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | <.001 | mg/L | .001 | 1 | EPA 200.9 | 02/24 | 10:37 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Chromium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Copper, Total | 0.022 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Mercury, Total | <.0001 | mg/L | .0001 | 1 | EPA 245.1 | 02/27 | 13:29 | JXS |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Nickel, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/25 | 14:36 | LNA |
| Zinc, Total | 0.082 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| ORGANIC | | | | | | | | |
| BASE NEUTRALS | | | | | | | | |
| Bis(2-Ethylhexyl) phthalate | <5 | ug/L | 5 | 1 | EPA 625 | 02/27 | 22:11 | MEB |
| EXTRACTION | | | | | | | | |
| EPA 625 Extraction | Complete | | 0 | 0 | EPA 625 | 02/24 | 09:00 | RDD |

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Reviewed and Approved by:

Richard Wolfe
Technical Director

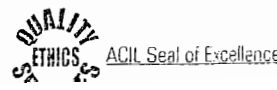
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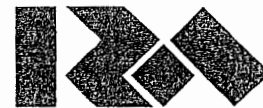
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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/28/14
Lab ID: 124-14-0007557

Date Collected: 02/21/14 08:27
Collected By: CLIENT

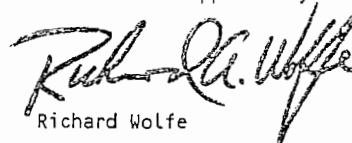
Sample Desc: Final 14-1629 (Grab)

Date Received: 02/21/14 15:10

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|---------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | 0.014 | mg/L | .004 | 1 | DEP 1 | 02/24 | 16:49 | JCL |
| Cyanide, Total | 0.023 | mg/L | .004 | 1 | 10204001X | 02/26 | 12:35 | JCL |
| Phenols (4AAP) | <.01 | mg/L | .01 | 1 | EPA 420.4 | 02/25 | 13:40 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | <5 | mg/L | 5 | 1 | EPA 1664 | 02/24 | 05:00 | WXC |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 02/24 | 05:00 | WXC |

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Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/26/14
Lab ID: 124-14-0007555

Date Collected: 02/21/14 09:14
Collected By: Client

Sample Desc: Raw 14-1660 (Grab)

Date Received: 02/21/14 15:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 02/24 | 16:48 | JCL |
| Cyanide, Total | 0.005 | mg/L | .004 | 1 | 10204001X | 02/24 | 16:42 | JCL |
| Phenols (4AAP) | 0.064 | mg/L | .01 | 1 | EPA 420.4 | 02/25 | 13:40 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 18 | mg/L | 5 | 1 | EPA 1664 | 02/24 | 05:00 | WXC |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 02/25 | 06:00 | WXC |

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Technical Director





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Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/28/14
Lab ID: 124-14-0007558

Date Collected: 02/20/14 09:11
Collected By: CLIENT

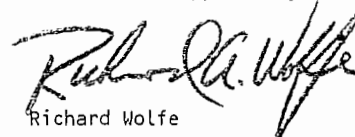
Sample Desc: Raw 14-1646 (Composite)

Date Received: 02/21/14 15:10

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|----------|------|---------------|------------------|------------|--------------|--------------|---------|
| <hr/> | | | | | | | | |
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 6.6 | mg/L | .5 | 10 | SM 4500P-E | 02/24 | 16:36 | ALD |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | <.001 | mg/L | .001 | 1 | EPA 200.9 | 02/24 | 10:37 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Chromium, Total | 0.017 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Copper, Total | 0.071 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Lead, Total | 0.01 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Mercury, Total | 0.0001 | mg/L | .0001 | 1 | EPA 245.1 | 02/27 | 13:29 | JXS |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Nickel, Total | 0.018 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/25 | 14:36 | LNA |
| Zinc, Total | 0.264 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| ORGANIC | | | | | | | | |
| BASE NEUTRALS | | | | | | | | |
| Bis(2-Ethylhexyl) phthalate | 7.7 | ug/L | 5 | 2 | EPA 625 | 02/27 | 20:09 | MEB |
| EXTRACTION | | | | | | | | |
| EPA 625 Extraction | Complete | | 0 | 0 | EPA 625 | 02/24 | 09:00 | RDD |

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Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

1st Quarter
Form 43, PP

Date of Report: 01/24/14
Lab ID: 0124-14-0001868
Date Collected: 01/08/14 08:46
Collected By: Client
Date Received: 01/08/14 14:45

Biosolids

Sample Description: 14-189 Form 43 (Total Analysis)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------------------------|---------------|---------|-----------------|----------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | 2.7 | * mg/kg | 2.1 | DEP 1 | 01/09 | 17:13 | JCL |
| Cyanide, Reactive | <130 | * mg/kg | 130 | SW846 7.3 | 01/09 | 17:13 | JCL |
| Cyanide, Total | 3.0 | * mg/kg | 2.1 | 10204001X | 01/09 | 17:13 | JCL |
| Phenols (4AAP) | 29 | * mg/kg | 5.3 | EPA 420.4 | 01/10 | 13:40 | jcl |
| Phosphorus as P, Total | 10100 | * mg/kg | 665 | SM 4500P-E | 01/21 | 09:42 | mxh |
| NITROGENS | | | | | | | |
| Nitrogen, Ammonia | 4600 | * mg/kg | 260 | EPA 350.1 | 01/10 | 16:41 | jcl |
| OTHER | | | | | | | |
| Biochemical Oxygen Demand | 96800 | * mg/kg | 1060 | SM 5210B | 01/09 | 16:00 | EMW |
| Paint Filter Liquids Test | NoFreeLiquids | | 0 | SW846 9095 | 01/17 | 13:00 | jxs |
| PHYSICAL | | | | | | | |
| Corrosivity | Not Corrosive | | 0 | SW846 7.2 | 01/20 | 13:05 | ald |
| Ignitability | Not Ignitable | | 0 | SW846 1030 | 01/17 | 13:00 | jxs |
| pH | 8.13 | su | 2 | SW846 9045 | 01/09 | 10:55 | emw |
| Reactivity | Not Reactive | | 0 | SW846 7.3 | 01/20 | 13:09 | ald |
| Visual Color | dark brown | color | 1 | VISUAL | 01/24 | 10:20 | ald |
| RESIDUES | | | | | | | |
| Solids, Total Volatile | 68.8 | % | 1 | SM 2540G | 01/09 | 13:45 | tmh |
| Total Solids | 18.8 | % | .01 | SM 2540G | 01/09 | 13:45 | tmh |
| TITRATIONS | | | | | | | |
| Sulfide, Reactive | 350 | * mg/kg | 260 | SW846 7.3 | 01/14 | 11:45 | jae |
| INORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Antimony, Total | <26.6 | * mg/kg | 26.6 | SW846 6010 | 01/09 | 13:22 | lra |
| Arsenic, Total | 2 | * mg/kg | 0.5 | EPA 200.9 | 01/13 | 11:20 | rls |
| Barium, Total | 368 | * mg/kg | 2.66 | SW846 6010 | 01/09 | 13:22 | lra |
| Beryllium, Total | <2.66 | * mg/kg | 2.66 | SW846 6010 | 01/09 | 13:22 | lra |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe

Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 0124-14-0001868
Date Collected: 01/08/14 08:46
Collected By: Client
Date Received: 01/08/14 14:45

Sample Description: 14-189 Form 43 (Total Analysis)

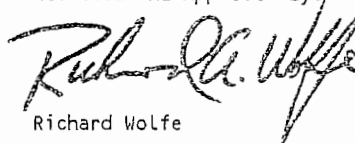
* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|--|---------|---------|-----------------|----------------|-----------|-----------|---------|
| Cadmium, Total | <2.66 | * mg/kg | 2.66 | SW846 6010 | 01/09 | 13:22 | lna |
| Chromium, Total | 78.2 | * mg/kg | 2.66 | SW846 6010 | 01/09 | 13:22 | lna |
| Copper, Total | 437 | * mg/kg | 5.32 | SW846 6010 | 01/09 | 13:22 | lna |
| Lead, Total | 85 | * mg/kg | 5.3 | SW846 6010 | 01/09 | 13:22 | lna |
| Mercury, Total | 2 | * mg/kg | 1 | SW846 7471 | 01/15 | 13:52 | jxs |
| Molybdenum, Total | 30 | * mg/kg | 5 | SW846 6010 | 01/09 | 13:22 | lna |
| Nickel, Total | 28 | * mg/kg | 2.6 | SW846 6010 | 01/09 | 13:22 | lna |
| Selenium, Total | 4 | * mg/kg | 1 | EPA 200.9 | 01/16 | 14:28 | rls |
| Silver, Total | 4 | * mg/kg | 3 | SW846 6010 | 01/13 | 13:01 | lna |
| Thallium, Total | <26.6 | * mg/kg | 26.6 | SW846 6010 | 01/09 | 13:22 | lna |
| Zinc, Total | 1200 | * mg/kg | 2.66 | SW846 6010 | 01/09 | 13:22 | lna |
| O&G, TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 161570 | * mg/kg | 1329.8 | EPA 1664 | 01/14 | 04:30 | wxc |
| Oil and Grease | 161570 | * mg/kg | 1329.8 | EPA 1664 | 01/14 | 04:30 | wxc |
| Silica Gel Treated N-Hexane Extract(TPH) | 2890 | * mg/kg | 1330 | EPA 1664 | 01/15 | 03:30 | wxc |
| Total Petroleum Hydrocarbons | 2890 | * mg/kg | 26.6 | EPA 1664 | 01/15 | 03:30 | wxc |
| ORGANIC | | | | | | | |
| ACID COMPOUNDS | | | | | | | |
| 2,4,6-Trichlorophenol | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 2,4-Dichlorophenol | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 2,4-Dimethylphenol | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 2,4-Dinitrophenol | <133 | * mg/kg | 133 | SW846 8270 | 01/09 | 17:46 | meb |
| 2-Chlorophenol | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 2-Nitrophenol | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 4,6-Dinitro-o-cresol | <133 | * mg/kg | 133 | SW846 8270 | 01/09 | 17:46 | meb |
| 4-Chloro-3-methylphenol | <53.2 | * mg/kg | 53.2 | SW846 8270 | 01/09 | 17:46 | meb |
| 4-Nitrophenol | <133 | * mg/kg | 133 | SW846 8270 | 01/09 | 17:46 | meb |
| Pentachlorophenol | <133 | * mg/kg | 133 | SW846 8270 | 01/09 | 17:46 | meb |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:


Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 0124-14-0001868
Date Collected: 01/08/14 08:46
Collected By: Client
Date Received: 01/08/14 14:45

Sample Description: 14-189 Form 43 (Total Analysis)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|---|-------------|---------|--------------------|------------|--------------|--------------|---------|
| Phenol | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| BASE NEUTRALS | | | | | | | |
| 1,2,4-Trichlorobenzene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 1,2-Diphenylhydrazine (as Azobenzene) | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 1,3-Dichlorobenzene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 1,4-Dichlorobenzene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 2,3,7,8-Tetrachlorodibenzodioxin | see comment | mg/kg | 2 | SW846 8270 | 01/09 | 17:46 | meb |
| 2,4-Dinitrotoluene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 2,6-Dinitrotoluene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 1-Chloronaphthalene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 3,3'-Dichlorobenzidine | <53.2 | * mg/kg | 53.2 | SW846 8270 | 01/09 | 17:46 | meb |
| 3,4-Benzofluoranthene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 4-Bromophenyl phenyl ether | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| 4-Chlorophenyl phenyl ether | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Acenaphthene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Acenaphthylene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Anthracene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Benzidine | <53.2 | * mg/kg | 53.2 | SW846 8270 | 01/09 | 17:46 | meb |
| Benzo(a)anthracene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Benzo(a)pyrene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Benzo(ghi)perylene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Benzo(k)fluoranthene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Bis(2-chloroethoxy)methane | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Bis(2-Chloroethyl) ether | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Bis(2-Chloroisopropyl) ether | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Bis(2-Ethylhexyl) phthalate | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Butyl benzyl phthalate | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Chrysene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |

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Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 0124-14-0001868
Date Collected: 01/08/14 08:46
Collected By: Client
Date Received: 01/08/14 14:45

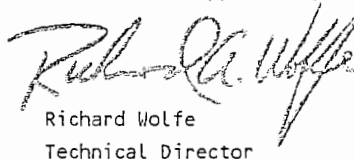
Sample Description: 14-189 Form 43 (Total Analysis)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|-------------------------------|-------------|---------|--------------------|------------|--------------|--------------|---------|
| Di-n-butyl phthalate | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Di-n-octyl phthalate | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Dibenz(a,h)anthracene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Diethyl phthalate | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Dimethyl phthalate | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Fluoranthrene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Fluorene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Hexachlorobenzene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Hexachlorobutadiene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Hexachlorocyclopentadiene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Hexachloroethane | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Indeno(1,2,3-cd)pyrene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Isophorone | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Library Search, Semivolatiles | see comment | mg/kg | 2 | SW846 8270 | 01/10 | 17:46 | meb |
| N-Nitrosodi-n-propylamine | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| N-Nitrosodimethylamine | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| N-Nitrosodiphenylamine | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Naphthalene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Nitrobenzene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Phenanthrene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| Pyrene | <26.6 | * mg/kg | 26.6 | SW846 8270 | 01/09 | 17:46 | meb |
| EXTRACTION | | | | | | | |
| SW846 8081 Extraction | Complete | | 0 | SW846 8081 | 01/15 | 10:00 | ecc |
| SW846 8082 Extraction | Complete | | 0 | SW846 8082 | 01/15 | 10:00 | ecc |
| SW846 8270 Extraction | Complete | | 0 | SW846 8270 | 01/09 | 10:00 | meb |
| PCBS | | | | | | | |
| PCB-1016 | <53.2 | * mg/kg | 53.2 | SW846 8082 | 01/14 | 21:11 | rpb |
| PCB-1221 | <53.2 | * mg/kg | 53.2 | SW846 8082 | 01/14 | 21:11 | rpb |
| PCB-1232 | <53.2 | * mg/kg | 53.2 | SW846 8082 | 01/14 | 21:11 | rpb |

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 0124-14-0001868
Date Collected: 01/08/14 08:46
Collected By: Client
Date Received: 01/08/14 14:45

Sample Description: 14-189 Form 43 (Total Analysis)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|---------------------------|---------|---------|-----------------|------------|-----------|-----------|---------|
| PCB-1242 | <53.2 | * mg/kg | 53.2 | SW846 8082 | 01/14 | 21:11 | rpb |
| PCB-1248 | <53.2 | * mg/kg | 53.2 | SW846 8082 | 01/14 | 21:11 | rpb |
| PCB-1254 | <53.2 | * mg/kg | 53.2 | SW846 8082 | 01/14 | 21:11 | rpb |
| PCB-1260 | <53.2 | * mg/kg | 53.2 | SW846 8082 | 01/14 | 21:11 | rpb |
| PESTICIDES | | | | | | | |
| 4,4'-DDD | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| 4,4'-DDE | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| 4,4'-DDT | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Aldrin | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| alpha-BHC | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| eta-BHC | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Chlordane | <266 | * mg/kg | 266 | SW846 8081 | 01/14 | 21:11 | rpb |
| delta-BHC | <266 | * mg/kg | 266 | SW846 8081 | 01/14 | 21:11 | rpb |
| Dieldrin | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Endosulfan I | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Endosulfan II | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Endosulfan sulfate | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Endrin | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Endrin aldehyde | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Heptachlor | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Heptachlor Epoxide | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Lindane (Gamma BHC) | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| Toxaphene | <53.2 | * mg/kg | 53.2 | SW846 8081 | 01/14 | 21:11 | rpb |
| VOLATILES | | | | | | | |
| 1,1,1-Trichloroethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| 1,1,2,2-Tetrachloroethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| 1,1,2-Trichloroethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| 1,1-Dichloroethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| 1,1-Dichloroethylene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |

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Technical Director

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Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 0124-14-0001868

Date Collected: 01/08/14 08:46
Collected By: Client

Date Received: 01/08/14 14:45

Sample Description: 14-189 Form 43 (Total Analysis)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|-----------------------------------|-------------|---------|--------------------|------------|--------------|--------------|---------|
| 1,2-Dichloroethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| 1,2-Dichloropropane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| 2-Chloroethylvinyl Ether | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Acrolein | <1330 | * ug/kg | 1330 | SW846 8260 | 01/20 | 18:39 | gxf |
| Acrylonitrile | <1330 | * ug/kg | 1330 | SW846 8260 | 01/20 | 18:39 | gxf |
| Benzene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Bromoform (Tribromomethane) | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Bromomethane (Methyl Bromide) | <266 | * ug/kg | 266 | SW846 8260 | 01/20 | 18:39 | gxf |
| Carbon Tetrachloride | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Chlorobenzene (Monochlorobenzene) | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Chlorodibromomethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Chloroethane | <266 | * ug/kg | 266 | SW846 8260 | 01/20 | 18:39 | gxf |
| Chloroform | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Chloromethane (Methyl Chloride) | <266 | * ug/kg | 266 | SW846 8260 | 01/20 | 18:39 | gxf |
| cis-1,3-Dichloropropylene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Dichlorobromomethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Ethylbenzene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Library Search, Volatiles | see comment | ug/kg | 30 | SW846 8260 | 01/20 | 18:39 | gxf |
| Methylene Chloride | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Tetrachloroethylene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Toluene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| trans-1,2-Dichloroethylene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| trans-1,3-Dichloropropylene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Trichloroethylene | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Trichlorofluoromethane | <133 | * ug/kg | 133 | SW846 8260 | 01/20 | 18:39 | gxf |
| Vinyl Chloride | <266 | * ug/kg | 266 | SW846 8260 | 01/20 | 18:39 | gxf |

COMMENTS:

1 - For sw846 8081, the sample was run at an initial d10 dilution due to the matrix of the sample.

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Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 0124-14-0001868
Date Collected: 01/08/14 08:46
Collected By: Client
Date Received: 01/08/14 14:45

Sample Description: 14-189 Form 43 (Total Analysis)

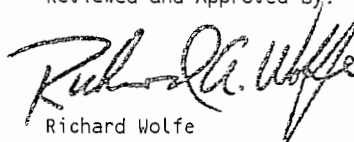
* Results Expressed as Dry Weight

| Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|---------|------|--------------------|-----------|--------------|--------------|---------|
|---------|------|--------------------|-----------|--------------|--------------|---------|

- 2 - For sw846 8081, the final ccv had several low and high recoveries for pesticides and a low recovery of toxaphene due to sample matrix.
- 3 - For sw846 8081, the MS had several low and high recoveries for pesticides due to sample matrix.
- 4 - The Ammonia matrix spike was high indicating possible sample matrix interference.
- The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 6 - The epa 625 method ccv was low for several compounds but the QC and QC duplicate samples were within limits for these compounds.
- 7 - The sw846 8270 method internal standards Chrysene-d12 and Perylene-d12 had low recovery in the Blank and the sample.
- 8 - The sw846 8270 method surrogates 2-Fluorophenol and Phenol-d6 had high recovery in the QC and QC duplicate.
- 9 - The svoc Library search tentatively identified: Sulfur cyclic octaatomic, Nonadecane, Triacontane, Hexatriacontane, Tetracosahexaene.
- 10 - The svoc Library search also tentatively identified Tritetracontane and Cholestan-3-ol.

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Richard Wolfe
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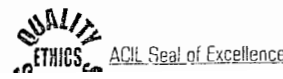
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815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 0124-14-0001868
Date Collected: 01/08/14 08:46
Collected By: Client
Date Received: 01/08/14 14:45

Sample Description: 14-189 Form 43 (Total Analysis)

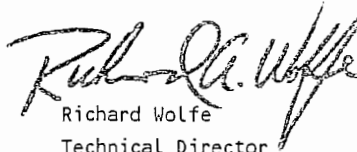
* Results Expressed as Dry Weight

| Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------|------|--------------------|-------------------|--------------|--------------|---------|
|---------|------|--------------------|-------------------|--------------|--------------|---------|

- 11 - One or more semi-volatile compounds had high recovery in the CCV, QC and QC duplicate but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 12 - Not Ignitable: No combustion after 2 minutes of direct contact with a torch's flame.
- 13 - The VOC library search tentatively identified Acetone, p-Isoproyltoluene, Dimethyl sulfide, Dimethyl disulfide, Dimethyl trisulfide, and 2 unknown compounds.
- 14 - For the sw846 8260 low level soil, the matrix spike performed on the sample was high for Acrylonitrile.
- 15 - The VOC library search tentatively identified Trimethylamine, Undecane, and Dodecane.
- 16 - For the sw846 8260 low level soil analysis, the response of the internal standard Chlorobenzene-d5 was lower than the acceptable range in the matrix spike.
- 17 - For the sw846 8260 low level soil analysis, the responses of all internal standards were lower than the acceptable range in the unspiked aliquot.

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Attention: Amy L. Morriss
Reported To: City of Reading WWT
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815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 124-14-0001870

Date Collected: 01/08/14 08:46
Collected By: CLIENT

Sample Desc: 14-189 Form 43 (TCLP Leachate Analysis)

Date Received: 01/08/14 14:45

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|----------|------|---------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| LEACHATE | | | | | | | | |
| pH, Extract Fluid | 4.90 | su | 1 | 1 | SW846 9040 | 01/10 | 08:10 | JXS |
| pH, Leachate | 5.51 | su | 1 | 1 | SW846 9040 | 01/10 | 08:10 | JXS |
| INORGANIC | | | | | | | | |
| EXTRACTION | | | | | | | | |
| TCLP Preparation | Complete | | 0 | 0 | EPA 1311 | 01/10 | 08:10 | JXS |
| TCLP | | | | | | | | |
| Arsenic, TCLP | <.05 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Barium, TCLP | 0.10 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Cadmium, TCLP | <.05 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Chromium, TCLP | <.05 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Copper, TCLP | <.05 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Iron, TCLP | 0.3 | mg/L | .2 | 1 | SW846 6010 | 01/15 | 13:15 | LNA |
| Lead, TCLP | <.15 | mg/L | .15 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Mercury, TCLP | <.004 | mg/L | .004 | 1 | SW846 7470 | 01/15 | 13:52 | JXS |
| Molybdenum, TCLP | <.1 | mg/L | .1 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Nickel, TCLP | <.05 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Selenium, TCLP | <.05 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| Silver, TCLP | <.05 | mg/L | .05 | 1 | SW846 6010 | 01/13 | 13:01 | LNA |
| Zinc, TCLP | 0.36 | mg/L | .05 | 1 | SW846 6010 | 01/14 | 10:09 | LNA |
| ORGANIC | | | | | | | | |
| ACID COMPOUNDS | | | | | | | | |
| 2,4,5-Trichlorophenol, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| 2,4,6-Trichlorophenol, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| Cresols, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| Pentachlorophenol, TCLP | <250 | ug/L | 250 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| BASE NEUTRALS | | | | | | | | |
| 2,4-Dinitrotoluene, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| Hexachlorobenzene, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |

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Richard Wolfe
Technical Director





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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 124-14-0001870

Date Collected: 01/08/14 08:46
Collected By: CLIENT

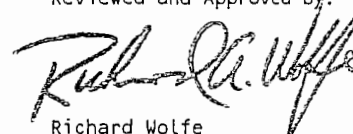
Sample Desc: 14-189 Form 43 (TCLP Leachate Analysis)

Date Received: 01/08/14 14:45

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|----------------------------------|----------|------|------------|---------------|------------|-----------|-----------|---------|
| Hexachlorobutadiene, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| Hexachloroethane, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| Nitrobenzene, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| Pyridine, TCLP | <50 | ug/L | 50 | 1 | SW846 8270 | 01/20 | 17:03 | MEB |
| EXTRACTION | | | | | | | | |
| SM 6640B Extraction | Complete | | 0 | 0 | SM 6640B | 01/17 | 08:00 | JLV |
| SW846 8081 Extraction | Complete | | 0 | 0 | SW846 8081 | 01/14 | 08:00 | JLV |
| SW846 8270 Extraction | Complete | | 0 | 0 | SW846 8270 | 01/16 | 08:00 | JLV |
| HERBICIDES | | | | | | | | |
| 2,4,5-TP Silvex, TCLP | <1 | ug/L | 1 | 1 | SM 6640B | 01/20 | 15:51 | TWH |
| 2,4-D, TCLP | <1 | ug/L | 1 | 1 | SM 6640B | 01/20 | 15:51 | TWH |
| PESTICIDES | | | | | | | | |
| Chlordane, TCLP | <5 | ug/L | 5 | 1 | SW846 8081 | 01/15 | 18:15 | RPB |
| Endrin, TCLP | <.5 | ug/L | .5 | 1 | SW846 8081 | 01/15 | 18:15 | RPB |
| Heptachlor (and hydroxide), TCLP | <.5 | ug/L | .5 | 1 | SW846 8081 | 01/15 | 18:15 | RPB |
| Heptachlor Epoxide, TCLP | <.5 | ug/L | .5 | 1 | SW846 8081 | 01/15 | 18:15 | RPB |
| Lindane, TCLP | <.5 | ug/L | .5 | 1 | SW846 8081 | 01/15 | 18:15 | RPB |
| Methoxychlor, TCLP | <.5 | ug/L | .5 | 1 | SW846 8081 | 01/15 | 18:15 | RPB |
| Toxaphene, TCLP | <10 | ug/L | 10 | 1 | SW846 8081 | 01/15 | 18:15 | RPB |
| VOLATILES | | | | | | | | |
| 1,1-Dichloroethylene, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| 1,2-Dichlorobenzene, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| 1,2-Dichloroethane, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| 1,4-Dichlorobenzene, TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| Benzene, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| Carbon Tetrachloride, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| Chlorobenzene, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| Chloroform, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| Methyl Ethyl Ketone, ZHE TCLP | <200 | ug/L | 200 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| Tetrachloroethylene, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

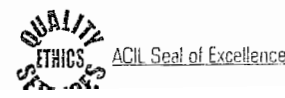
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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 124-14-0001870

Date Collected: 01/08/14 08:46
Collected By: CLIENT

Sample Desc: 14-189 Form 43 (TCLP Leachate Analysis)

Date Received: 01/08/14 14:45

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|--------|------|---------------|------------------|------------|--------------|--------------|---------|
| Trichloroethylene, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |
| Vinyl Chloride, ZHE TCLP | <100 | ug/L | 100 | 1 | SW846 8260 | 01/15 | 17:48 | GXF |

COMMENTS

- 01 For sw846 8081, the final ccv had high recovery of methoxychlor due to sample matrix.
- 02 The sw846 8270 method internal standard Chrysene-d12 had low recovery in the sample.
- 03 For SM 6640b the Blank and QC samples had high surrogate recoveries, and the sample and matrix spike had low surrogate recoveries.
- 04 For SM 6640B the matrix spike sample had a high 2,4-D recovery, and a low silvex recovery due to matrix interference.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 01/24/14
Lab ID: 124-14-0001871

Date Collected: 01/08/14 08:46
Collected By: CLIENT

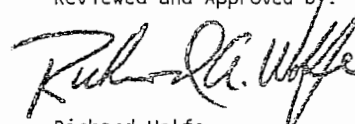
Sample Desc: 14-189 Form 43 (ASTM Leachate Analysis)

Date Received: 01/08/14 14:45

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------------|----------|------|---------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| NITROGENS | | | | | | | | |
| Nitrogen, Ammonia | 68 | mg/L | 2 | 20 | D6919-03 | 01/14 | 17:19 | JCL |
| OTHER | | | | | | | | |
| Chemical Oxygen Demand | 496 | mg/L | 25 | 1 | HACH8000 | 01/16 | 13:30 | MXB |
| PHYSICAL | | | | | | | | |
| pH | 7.89 | su | 2 | 1 | SW846 9045 | 01/18 | 11:30 | EMW |
| RESIDUES | | | | | | | | |
| Solids, Total | 3699 | mg/L | 5 | 1 | SM 2540B | 01/16 | 13:25 | TMH |
| INORGANIC | | | | | | | | |
| EXTRACTION | | | | | | | | |
| ASTM Preparation | Complete | | 0 | 0 | ASTM | 01/10 | 08:10 | JXS |
| C PH | | | | | | | | |
| GENERAL | | | | | | | | |
| Oil and Grease | <10 | mg/L | 10 | 1 | EPA 1664 | 01/14 | 07:00 | WXC |
| Total Petroleum Hydrocarbons | <10 | mg/L | 10 | 1 | EPA 1664 | 01/14 | 07:00 | WXC |

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Reviewed and Approved by:


Richard Wolfe
Technical Director

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M. J. Reider Associates, Inc.

107 Angelica Street

Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 38235

Page 1 of 1

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1/1/11

1. Client (Company or Individual):

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (if different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

4. Project Name:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO₃

S = H₂SO₄

P = H₃PO₄

H = NaOH

M = Monochloroacetic Acid

T = NaS₂O₃

E = EDTA

L = NH₄Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

3. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Really

☐ NPDES

PWSID #

MJRA

ID #

9. Sample

Description

10.

Date

11.

Time

12.

Composite

13.

Grab

14.

Matrix

16.

Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Form 43 - (See sheet)

Also: Total Phosphorous,

CU (tot + Free), phenols,

oil + Grease (Hem + Sgt Hem)

Visual - color, 8270 (Bis2)

8260 (vol) 8270 (semi vol)

8081 (pest) 8082 (reB)

BOD, Nit3N, Metals (see above)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



1st Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/28/14
Lab ID: 124-14-0007562

Date Collected: 02/20/14 08:12
Collected By: CLIENT


Sample Desc: GC 14-1661 (Composite)

Date Received: 02/21/14 15:10

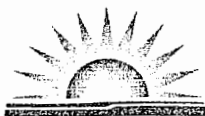
| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|----------|------|---------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 4.3 | mg/L | .5 | 10 | SM 4500P-E | 02/24 | 16:36 | ALD |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | <.001 | mg/L | .001 | 1 | EPA 200.9 | 02/24 | 10:37 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Chromium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Copper, Total | 0.051 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Mercury, Total | 0.0005 | mg/L | .0001 | 1 | EPA 245.1 | 02/27 | 13:29 | JXS |
| Molybdenum, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Nickel, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/25 | 14:36 | LNA |
| Zinc, Total | 0.117 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| ORGANIC | | | | | | | | |
| BASE NEUTRALS | | | | | | | | |
| Bis(2-Ethylhexyl) phthalate | 8.0 | ug/L | 5 | 1 | EPA 625 | 02/27 | 23:12 | MEB |
| EXTRACTION | | | | | | | | |
| EPA 625 Extraction | Complete | | 0 | 0 | EPA 625 | 02/24 | 09:00 | RDD |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

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ACIL Seal of Excellence



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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/28/14
Lab ID: 124-14-0007563

Date Collected: 02/21/14 08:14
Collected By: CLIENT


Sample Desc: GC 14-1663 (Grab)

Date Received: 02/21/14 15:10

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|---------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 02/24 | 16:50 | JCL |
| Cyanide, Total | <.004 | mg/L | .004 | 1 | 10204001X | 02/24 | 16:45 | JCL |
| Phenols (4AAP) | 0.039 | mg/L | .01 | 1 | EPA 420.4 | 02/25 | 13:45 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 11 | mg/L | 5 | 1 | EPA 1664 | 02/24 | 05:00 | WXC |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 02/25 | 06:00 | WXC |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe

Technical Director

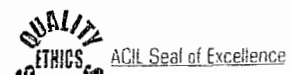
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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/28/14
Lab ID: 124-14-0007564

Date Collected: 02/20/14 08:29
Collected By: CLIENT

Sample Desc: 6th 14-1662 (Composite)

Date Received: 02/21/14 15:10

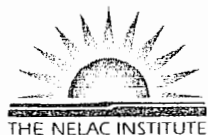
| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|----------|------|---------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 4.8 | mg/L | .5 | 10 | SM 4500P-E | 02/24 | 16:36 | ALD |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | <.001 | mg/L | .001 | 1 | EPA 200.9 | 02/24 | 10:37 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Chromium, Total | 0.015 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Copper, Total | 0.044 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Mercury, Total | <.0001 | mg/L | .0001 | 1 | EPA 245.1 | 02/27 | 13:29 | JXS |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Nickel, Total | 0.016 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 02/25 | 14:36 | LNA |
| Zinc, Total | 0.187 | mg/L | .005 | 1 | EPA 200.7 | 02/26 | 13:28 | LNA |
| ORGANIC | | | | | | | | |
| BASE NEUTRALS | | | | | | | | |
| Bis(2-Ethylhexyl) phthalate | 7.5 | ug/L | 5 | 1 | EPA 625 | 02/27 | 00:12 | MEB |
| EXTRACTION | | | | | | | | |
| EPA 625 Extraction | Complete | | 0 | 0 | EPA 625 | 02/24 | 09:00 | RDD |

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/28/14
Lab ID: 124-14-0007565

Date Collected: 02/21/14 08:31
Collected By: CLIENT

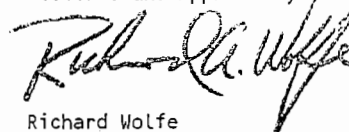
Sample Desc: 6th 14-1664 (Grab)

Date Received: 02/21/14 15:10

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|---------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 02/24 | 16:50 | JCL |
| Cyanide, Total | 0.006 | mg/L | .004 | 1 | 10204001X | 02/24 | 16:46 | JCL |
| Phenols (4AAP) | 0.057 | mg/L | .01 | 1 | EPA 420.4 | 02/25 | 13:46 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 23 | mg/L | 5 | 1 | EPA 1664 | 02/24 | 05:00 | WXC |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 02/25 | 06:00 | WXC |

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Richard Wolfe
Technical Director

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M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY STUDY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 38288

Page ____ of ____

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St
City: Reading State: Pa ZIP: 19601

Phone:

FAX:

2. Invoice To: (If different from above)

Lab #124 Quarterly

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

4. P.O. No.:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO₃

S = H₂SO₄

P = H₃PO₄

H = NaOH

T = Na₂S₂O₃

E = EDTA

L = NH₄Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals: Ag, As, Cd, Cr, Cu, Hg, Pb, Mo, Ni, Zn

3. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

PWSID #

☐ FHA/Realty

☐ NPDES

16.

Total # of Containers

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

7562

14-1661

GC

2/20/14

812

X

W

3

1

1

1

7563

14-1663

GC

2/21/14

814

X

W

5

7564

14-1662

6th

2/20/14

829

X

W

3

1

1

1

7565

14-1664

6th

2/21/14

831

X

W

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

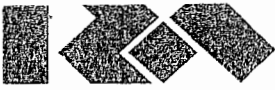
Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



2nd Quarter
Quarterly

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/02/14
Lab ID: 124-14-0016997

Date Collected: 04/25/14 08:23
Collected By: Client

Sample Desc: FG Sample 14-3730

Date Received: 04/25/14 15:05

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 05/01 | 16:59 | JCL |
| Cyanide, Total | <.004 | mg/L | .004 | 1 | 10204001X | 05/01 | 16:49 | JCL |
| Phenols (4AAP) | 0.018 | mg/L | .01 | 1 | EPA 420.4 | 04/28 | 16:22 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | <5 | mg/L | 5 | 1 | EPA 1664 | 04/28 | 06:00 | WXC |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 04/29 | 05:00 | WXC |

COMMENTS

- 1 The Phenols matrix spike was low indicating possible sample matrix interference.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/02/14
Lab ID: 124-14-0016998

Date Collected: 04/24/14 08:20
Collected By: Client

Sample Desc: FG Sample 14-3727

Date Received: 04/25/14 15:05

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 2.4 | mg/L | .5 | 10 | SM 4500P-E | 04/28 | 13:30 | ALD |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | <.001 | mg/L | .001 | 1 | EPA 200.9 | 04/28 | 20:13 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Chromium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Copper, Total | 0.028 | mg/L | .01 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Mercury, Total | <.0001 | mg/L | .0001 | 1 | EPA 245.1 | 04/30 | 15:45 | JXS |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Nickel, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 04/28 | 15:46 | LNA |
| Zinc, Total | 0.084 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/02/14
Lab ID: 124-14-0016999

Date Collected: 04/25/14 08:56
Collected By: Client

Sample Desc: RG-Sample 14-3738

Date Received: 04/25/14 15:05

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 05/01 | 17:00 | JCL |
| Cyanide, Total | <.004 | mg/L | .004 | 1 | 10204001X | 05/01 | 16:49 | JCL |
| Phenols (4AAP) | 0.065 | mg/L | .01 | 1 | EPA 420.4 | 04/28 | 16:24 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 16 | mg/L | 5 | 1 | EPA 1664 | 04/28 | 13:00 | WXC |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 04/29 | 05:00 | WXC |

Distribution of Reports:

Reviewed and Approved by:

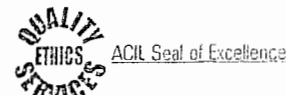

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Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/02/14
Lab ID: 124-14-0017000

Date Collected: 04/24/14 08:58
Collected By: Client

Sample Desc: RC Sample 14-3939

Date Received: 04/25/14 15:05

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 6.5 | mg/L | .5 | 10 | SM 4500P-E | 04/28 | 13:30 | ALD |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | <.001 | mg/L | .001 | 1 | EPA 200.9 | 04/28 | 20:13 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Chromium, Total | 0.013 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Copper, Total | 0.091 | mg/L | .01 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Lead, Total | 0.01 | mg/L | .01 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Mercury, Total | 0.0001 | mg/L | .0001 | 1 | EPA 245.1 | 04/30 | 15:45 | JXS |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Nickel, Total | 0.007 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 04/28 | 15:46 | LNA |
| Zinc, Total | 0.232 | mg/L | .005 | 1 | EPA 200.7 | 04/30 | 22:42 | LNA |

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Reviewed and Approved by:


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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.



2nd Quarter
Quantity

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

AMENDED

Date of Report: 06/03/14
Lab ID: 0124-14-0018596
Date Collected: 05/06/14 08:40
Collected By: Client
Date Received: 05/07/14 14:30

Sample Description: Belt Press 14-4297 (Composite)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|--|-----------|---------|--------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | 3 | * mg/kg | 2 | DEP 1 | 05/13 | 10:37 | jcl |
| Cyanide, Total | 5.4 | * mg/kg | 2.2 | 10204001X | 05/13 | 10:29 | jcl |
| Phenols (4AAP) | 22 | * mg/kg | 5.4 | EPA 420.4 | 05/09 | 16:07 | jcl |
| Phosphorus as P, Total | 17900 | * mg/kg | 679 | SM 4500P-E | 05/16 | 16:12 | ald |
| PHYSICAL | | | | | | | |
| Visual Color | darkbrown | color | 1 | VISUAL | 05/16 | 08:30 | jxs |
| RESIDUES | | | | | | | |
| Total Solids | 18.4 | % | 1 | SM 2540G | 05/13 | 14:20 | tmh |
| INORGANIC | | | | | | | |
| TAL | | | | | | | |
| Chromium, Total | 129 | * mg/kg | 2.72 | SW846 6010 | 05/13 | 19:10 | lna |
| Silver, Total | 5.4 | * mg/kg | 2.7 | SW846 6010 | 05/16 | 14:06 | lna |
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 49700 | * mg/kg | 1359 | EPA 1664 | 05/13 | 04:30 | wxc |
| Silica Gel Treated N-Hexane Extract(TPH) | 16740 | * mg/kg | 1359 | EPA 1664 | 05/14 | 06:00 | wxc |


COMMENTS:

1 - The Phenols matrix spike was low indicating possible sample matrix interference.

2 - The report has been Amended to correct the Phosphorus date of analysis.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

Page 1 of 1

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/23/14
Lab ID: 0124-14-0018596
Date Collected: 05/06/14 08:40
Collected By: Client
Date Received: 05/07/14 14:30

Sample Description: Belt Press 14-4297 (Composite)

* Results Expressed as Dry Weight

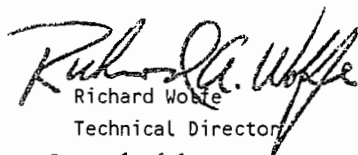
| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|--|-----------|---------|--------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | 3 | * mg/kg | 2 | DEP 1 | 05/13 | 10:37 | jcl |
| Cyanide, Total | 5.4 | * mg/kg | 2.2 | 10204001X | 05/13 | 10:29 | jcl |
| Phenols (4AAP) | 22 | * mg/kg | 5.4 | EPA 420.4 | 05/09 | 16:07 | jcl |
| Phosphorus as P, Total | 17900 | * mg/kg | 679 | SM 4500P-E | 06/16 | 16:12 | ald |
| PHYSICAL | | | | | | | |
| Visual Color | darkbrown | color | 1 | VISUAL | 05/16 | 08:30 | jxs |
| RESIDUES | | | | | | | |
| Total Solids | 18.4 | % | 1 | SM 2540G | 05/13 | 14:20 | tmh |
| INORGANIC | | | | | | | |
| TAL | | | | | | | |
| Chromium, Total | 129 | * mg/kg | 2.72 | SW846 6010 | 05/13 | 19:10 | lna |
| Silver, Total | 5.4 | * mg/kg | 2.7 | SW846 6010 | 05/16 | 14:06 | lna |
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 49700 | * mg/kg | 1359 | EPA 1664 | 05/13 | 04:30 | wxc |
| Silica Gel Treated N-Hexane Extract(TPH) | 16740 | * mg/kg | 1359 | EPA 1664 | 05/14 | 06:00 | wxc |

COMMENTS:

1 - The Phenols matrix spike was low indicating possible sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolke
Technical Director

Page 1 of 1

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**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 41918Page 1 of 1**6. Report Type:**☒ Routine

Standard QC

Data Package

7. Turnaround Time☒ StandardRUSH: 1 / 1 / 1**1. Client (Company or Individual):**City of Reading**Address:**815 Washington St**City:**Reading**State:**Pa**ZIP:**19601**Phone:****FAX:****Address:****City:****State:****ZIP:****Phone:****FAX:****3. Client Project Name / #:**Lab 124**4. P.O. No.:****5. Sampled By:**JAH**Matrix Code (for item 12)**

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other Belt press
Sludge**Container Codes (for item 13)****SIZE**

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

TYPE

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

Preservative Code (for item 14)

A = Ascorbic Acid T = NaS2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

9

Samples received on ice?

N

Sample Containers Intact?

N

VOC's Free of Headspace?

N

COC Seal Intact or attached?

YN**Samples Shipped or Hand Delivered**

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: WJH**17. SPECIAL INSTRUCTIONS/COMMENTS:*** Total Nitrogen (calculation)
** Report sludge as mg/Kg dry wgt**8. COMPLIANCE PURPOSE:**☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/Realty

PWSID # _____

☐ NPDES**16.**

Total # of Containers

90050015001/6SS--111111111111111111111111111**13. Container: Size / Type**←**14. Preservative**←**15. Analyses Requested**↓TKNTKN + Total PhosphorusNitrate-Nitrite as N * 500Ag, Cr, total PhosphorusCN (total + free) phenolsoil + grease (Hem + S&T Hem)TS, Visual color**18. RELINQUISHED BY****19. RECEIVED BY****DATE****TIME****Entered by:****Approved by:****TST****Comments:**

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

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DISTRIBUTION: White: Report; Yellow: Submitter

R 41918

Page 1 of 1

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1/1

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

PA

ZIP: 19601

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Lab 124

4. P.O. No.:

5. Sampled By: JAH

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

Belt press
Sludge

Container Codes (for item 13)

SIZE

TYPE

2L = 2 Liter

V = VOA vial

L = Liter

G = Glass

500 = 500ml

P = Plastic

250 = 250ml

M = Micro

125 = 125ml

O = Other

40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid T = NaS2O3

C = HCl E = EDTA

N = HNO3 L = NH4Cl

S = H2SO4 Z = Zinc Acetate

P = H3PO4 V = Ascorbic/HCl

H = NaOH O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

CCC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

MJRA

9. Sample

ID #

Description

10.

Date

Time

11.

Composite

Grab

Matrix

12.

Total # of Containers

16.

13. Container: Size / Type

14. Preservative

15. Analyses Requested

TKN

TKN + Total Phosphorus

Nitrate-Nitrite as N

Ag, Cr, total Phosphorus

CN (total + free) phenols

oil + grease (Hem + Sgt Hem)

TS, Visual color

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



3rd Quarter
Quarterly

Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/14/14
Lab ID: 124-14-0033719

Date Collected: 07/30/14 08:36
Collected By: CLIENT

Sample Desc: RC 14-7111

Date Received: 08/01/14 14:45

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|---------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 6.8 | mg/L | .5 | 10 | SM 4500P-E | 08/04 | 13:05 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | 0.001 | mg/L | .001 | 1 | EPA 200.9 | 08/05 | 18:13 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Chromium, Total | 0.038 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Copper, Total | 0.075 | mg/L | .01 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Lead, Total | 0.019 | mg/L | .001 | 1 | EPA 200.9 | 08/04 | 17:29 | LNA |
| Mercury, Total | 0.0002 | mg/L | .0002 | 1 | EPA 245.1 | 08/07 | 16:08 | JXS |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Nickel, Total | 0.011 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 08/05 | 16:25 | BTG |
| Zinc, Total | 0.277 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

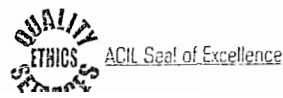
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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/14/14
Lab ID: 124-14-0033720

Date Collected: 07/31/14 08:37
Collected By: CLIENT


Sample Desc: RC 14-7116

Date Received: 08/01/14 14:45

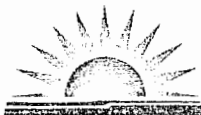
| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|---------------|------------------|-----------|--------------|--------------|---------|
| <hr/> | | | | | | | | |
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | 0.004 | mg/L | .004 | 1 | DEP 1 | 08/05 | 16:45 | JCL |
| Cyanide, Total | 0.008 | mg/L | .004 | 1 | 10204001X | 08/05 | 16:33 | JCL |
| Phenols (4AAP) | 0.291 | mg/L | .02 | 2 | EPA 420.4 | 08/05 | 14:41 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 21 | mg/L | 5 | 1 | EPA 1664 | 08/05 | 08:30 | CMB |
| Silica Gel Treated N-Hexane Extract(TPH) | 6 | mg/L | 5 | 1 | EPA 1664 | 08/11 | 08:00 | CMB |

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Reviewed and Approved by:


Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reid Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/14/14
Lab ID: 124-14-0033721

Date Collected: 07/30/14 07:57
Collected By: CLIENT

Sample Desc: FC 14-7107

Date Received: 08/01/14 14:45

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|------------|---------------|------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 3.2 | mg/L | .5 | 10 | SM 4500P-E | 08/04 | 13:05 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | <.001 | mg/L | .001 | 1 | EPA 200.9 | 08/05 | 18:13 | LNA |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Chromium, Total | 0.008 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Copper, Total | 0.019 | mg/L | .01 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Lead, Total | 0.002 | mg/L | .001 | 1 | EPA 200.9 | 08/04 | 17:29 | LNA |
| Mercury, Total | <.0001 | mg/L | .0001 | 1 | EPA 245.1 | 08/07 | 16:08 | JXS |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Nickel, Total | 0.006 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 08/05 | 16:25 | BTG |
| Zinc, Total | 0.087 | mg/L | .005 | 1 | EPA 200.7 | 08/04 | 16:56 | BTG |

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Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/14/14
Lab ID: 124-14-0033722

Date Collected: 07/31/14 07:58
Collected By: CLIENT

Sample Desc: FC 14-7108

Date Received: 08/01/14 14:45


| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|---------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 08/05 | 16:46 | JCL |
| Cyanide, Total | <.004 | mg/L | .004 | 1 | 10204001X | 08/05 | 16:34 | JCL |
| Phenols (4AAP) | 0.130 | mg/L | .01 | 1 | EPA 420.4 | 08/05 | 14:35 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | <5 | mg/L | 5 | 1 | EPA 1664 | 08/05 | 08:30 | CMB |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 08/11 | 08:00 | CMB |

COMMENTS

The EPA 1664A spike of this sample had recovery outside of the recommended range.

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3rd Quater PP

Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042752

Date Collected: 09/22/14 09:02
Collected By: Client

Sample Desc: 14-8885 FG Grab

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 09/25 | 14:52 | JCL |
| Cyanide, Total | <.004 | mg/L | .004 | 1 | 10204001X | 09/25 | 14:44 | JCL |
| Phenols (4AAP) | 0.021 | mg/L | .01 | 1 | EPA 420.4 | 09/24 | 15:08 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | <5 | mg/L | 5 | 1 | EPA 1664 | 09/25 | 06:30 | JLV |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 09/25 | 06:30 | JLV |

COMMENTS

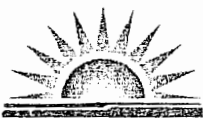
- 1 The total Cyanide matrix spike was low indicating possible sample matrix interference.

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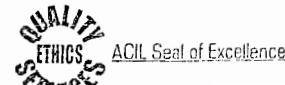

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Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042753

Date Collected: 09/21/14 08:08
Collected By: Client

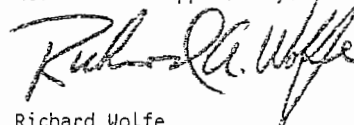
Sample Desc: 14-8860 FC Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 3.8 | mg/L | .5 | 10 | SM 4500P-E | 09/24 | 10:55 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Antimony, Total | <.005 | mg/L | .005 | 1 | EPA 200.9 | 10/01 | 09:42 | MXB |
| Arsenic, Total | 0.014 | mg/L | .001 | 1 | EPA 200.8 | 10/08 | 01:53 | MXB |
| Beryllium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Chromium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Copper, Total | 0.021 | mg/L | .01 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Mercury, Total | 0.0002 | mg/L | .0001 | 1 | EPA 245.1 | 09/24 | 17:49 | JXS |
| Molybdenum, Total | 0.07 | mg/L | .01 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Nickel, Total | 0.005 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Selenium, Total | <.002 | mg/L | .002 | 1 | EPA 200.9 | 10/01 | 04:01 | MXB |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 10/02 | 11:51 | JXS |
| Thallium, Total | <.05 | mg/L | .05 | 1 | EPA 200.7 | 10/02 | 23:11 | JXS |
| Zinc, Total | 0.080 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| ORGANIC | | | | | | | | |
| ACID COMPOUNDS | | | | | | | | |
| 2,4,6-Trichlorophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2,4-Dichlorophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2,4-Dimethylphenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2,4-Dinitrophenol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2-Chlorophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2-Nitrophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 4,6-Dinitro-o-cresol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 4-Chloro-3-methylphenol | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 4-Nitrophenol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 18:30 | MEB |

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Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042753

Date Collected: 09/21/14 08:08
Collected By: Client

Sample Desc: 14-8860 FC Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|---------------------------------------|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| Pentachlorophenol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Phenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| BASE NEUTRALS | | | | | | | | |
| 1,2,4-Trichlorobenzene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 1,2-Diphenylhydrazine (as Azobenzene) | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2,4-Dinitrotoluene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2,6-Dinitrotoluene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 2-Chloronaphthalene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 3,3'-Dichlorobenzidine | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 3,4-Benzofluoranthene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 4-Bromophenyl phenyl ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| 4-Chlorophenyl phenyl ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Acenaphthene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Acenaphthylene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Anthracene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Benzidine | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Benzo(a)anthracene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Benzo(a)pyrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Benzo(ghi)perylene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Benzo(k)fluoranthene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Bis(2-chloroethoxy)methane | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Bis(2-Chloroethyl) ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Bis(2-Chloroisopropyl) ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Bis(2-Ethylhexyl) phthalate | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Butyl benzyl phthalate | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Chrysene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Di-n-butyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Di-n-octyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Dibenz(a,h)anthracene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Diethyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |

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Technical Director

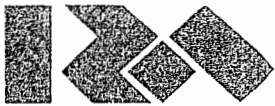
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815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042753

Date Collected: 09/21/14 08:08
Collected By: Client

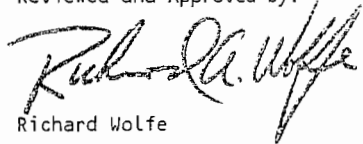
Sample Desc: 14-8860 FC Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-------------------------------|-------------|------|-----------|---------------|-----------|-----------|-----------|---------|
| Dimethyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Fluoranthrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Fluorene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Hexachlorobenzene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Hexachlorocyclopentadiene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Hexachloroethane | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Indeno(1,2,3-cd)pyrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Isophorone | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Library Search, Semivolatiles | see comment | ug/L | 40 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| N-Nitrosodi-n-propylamine | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| N-Nitrosodimethylamine | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| N-Nitrosodiphenylamine | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Naphthalene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Nitrobenzene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Phenanthrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| Pyrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 18:30 | MEB |
| EXTRACTION | | | | | | | | |
| EPA 608 Extraction | Complete | | 0 | 0 | EPA 608 | 09/25 | 10:00 | MCM |
| EPA 625 Extraction | Complete | | 0 | 0 | EPA 625 | 09/24 | 09:00 | MCM |
| PCBS | | | | | | | | |
| PCB-1016 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| PCB-1221 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| PCB-1232 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| PCB-1242 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| PCB-1248 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| PCB-1254 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| PCB-1260 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| PESTICIDES | | | | | | | | |
| 4,4'-DDD | <.02 | ug/L | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| 4,4'-DDE | <.02 | ug/L | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |

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Technical Director

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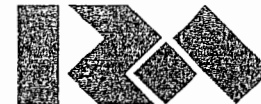
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Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042753

Date Collected: 09/21/14 08:08
Collected By: Client

Sample Desc: 14-8860 FC Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|---------------------|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| 4,4'-DDT | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Aldrin | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| alpha-BHC | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| beta-BHC | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Chlordane | <.5 | ug/l | .5 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| delta-BHC | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Dieldrin | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Endosulfan I | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Endosulfan II | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Endosulfan sulfate | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Endrin | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Endrin aldehyde | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Heptachlor | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Heptachlor Epoxide | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Lindane (Gamma BHC) | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:35 | LAK |
| Toxaphene | <.5 | ug/l | .5 | 1 | EPA 608 | 09/30 | 06:35 | LAK |

COMMENTS

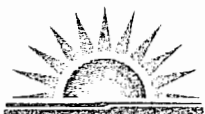
- 01 The semi-volatile organic compound library search did not detect any compounds above the concentration of the internal standards.
- 02 The epa 625 method ccv was low for several compounds but the QC was fine for these compounds.

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Reviewed and Approved by:

Richard Wolfe
Technical Director

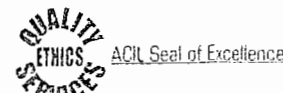
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Date of Report: 10/10/14
Lab ID: 124-14-0042753

Date Collected: 09/21/14 08:08
Collected By: Client

Sample Desc: 14-8860 FC Composite

Date Received: 09/22/14 16:10

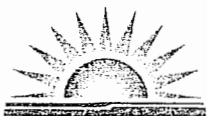
| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|----|---|------|--------------|------------------|-----------|--------------|--------------|---------|
| 03 | The epa 625 method QC had low recovery for Benzidine, Hexachloroethane, 2-Chloronaphthalene. | | | | | | | |
| 04 | EPA 608 method surrogate had low recoveries in the sample and sample duplicate. | | | | | | | |
| 05 | EPA 608 method ending CCV had low recoveries for one or more analytes due to sample matrix interference. | | | | | | | |

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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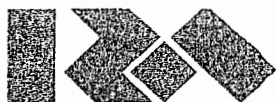


ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042754

Date Collected: 09/22/14 10:42
Collected By: Client

Sample Desc: 14-8902 FG 4 Grab/Lab Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|---|-------------|------|-----------|---------------|-----------|-----------|-----------|---------|
| ORGANIC | | | | | | | | |
| VOLATILES | | | | | | | | |
| 1,1,1-Trichloroethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,1,2,2-Tetrachloroethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,1,2-Trichloroethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,1-Dichloroethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,1-Dichloroethylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,2-Dichloroethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,2-Dichloropropane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,3-Dichlorobenzene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 1,4-Dichlorobenzene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| 2-Chloroethylvinyl Ether | <5 | ug/L | 5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Acrolein | <2 | ug/L | 2 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Acrylonitrile | <2 | ug/L | 2 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Benzene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Bromoform (Tribromomethane) | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Bromomethane (Methyl Bromide) | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Carbon Tetrachloride | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Chlorobenzene (Monochlorobenzene) | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Chlorodibromomethane | 1.7 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Chloroethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Chloroform | 7.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Chloromethane (Methyl Chloride) | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| cis-1,2-Dichloroethylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| cis-1,3-Dichloropropylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Dichlorobromomethane | 4.0 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Ethylbenzene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Hexachlorobutadiene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Library Search, Volatiles | see comment | ug/L | 15 | 1 | EPA 624 | 09/23 | 22:47 | GXF |

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042754

Date Collected: 09/22/14 10:42
Collected By: Client

Sample Desc: 14-8902 FG 4 Grab/Lab Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| Methylene Chloride | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Tetrachloroethylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Toluene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| trans-1,2-Dichloroethylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| trans-1,3-Dichloropropylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Trichloroethylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Trichlorofluoromethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Vinyl Chloride | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |
| Xylenes (Total) | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 22:47 | GXF |

COMMENTS

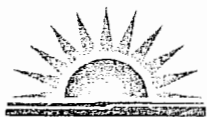
- J1 The volatile organic compound library search did not detect any compounds above the concentration of the internal standards.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

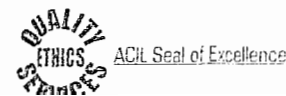
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**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 43126Page 1 of 2

6. Report Type:

☒ Routine☐ Standard QC☐ Data Package

7. Turnaround Time

☒ StandardRUSH: 1 / 1 / 1

1. Client (Company or Individual):

City of Reading

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Local/County

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Priority Pollutants

4. P.O. No.:

5. Samples Name:

RWS/UNIT

Matrix Code (for item 12)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other _____

Container Codes (for item 13)

SIZE

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

TYPE

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

Preservative Code (for item 14)

A = Ascorbic Acid

C = HCl

N = HNO₃S = H₂SO₄P = H₃PO₄

H = NaOH

T = NA₂S₂O₃

E = EDTA

L = NH₄Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on Ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: EJB

17. SPECIAL INSTRUCTIONS/COMMENTS:

* Composite VOAs

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/Really

PWSID # _____

☐ NPDES

16.

Total # of Containers

| MJRA ID # | 9. Sample Description | 10. | | 11. | | 12. | Total # of Containers |
|-----------|-----------------------|---------|------|-----------|------|--------|-----------------------|
| | | Date | Time | Composite | Grab | Matrix | |
| 42752 | 14-8885 FG | 9/22/14 | 902 | | X | 5 | 9 |
| | | | | | | | 2 |
| | | | | | | | 1 |
| | | | | | | | 1 |
| | | | | | | | 5 |
| 42753 | 14-8860 FC | 9/21/14 | 808 | X | | | 6 |
| | | | | | | | 1 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 42754 | 14-8902 FG | 9/22/14 | 1042 | | X | 5 | 5 |
| | | | | | | | 5 |

13. Container: Size / Type

14. Preservative

15. Analyses Requested

D.1 and Grease H₂O mt
SO₄ H₂ O mt
Phenols (T)Cyanide Total + Free
VOA * 624As, Ag, Be, Cd, Cr, Cu, Hg, Mo, Ni:
Pb, Tl, Se, Sb, Zn
Phosphorus (T)625, 608
VOA 624

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: PS Approved by: _____ TST _____ hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street

Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 43127

Page 2 of 2

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

4. P.O. No.:

5. Samples Name:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = NA2S2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on Ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Y

Y

Y

Y

Y

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: EJB

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Really

PWSID #

☐ NPDES

16.

Total # of Containers

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

↓

MJRA

ID #

9. Sample

Description

10.

11.

12.

Date

Time

Composite

Grab

Matrix

42755

14-8908 FG

9/22/14 1305

1

5

5

42756

14-8915 FG

9/22/14 1424

1

6

6

8/22/14

composited w/ sample

ED 42754

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



3rd Quarter
Form 43

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0028616

Date Collected: 07/02/14 09:55
Collected By: CLIENT

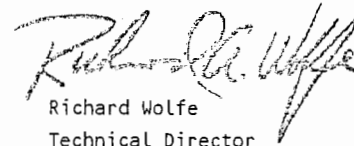
Sample Desc: Belt Press 14-6196 (Composite)

Date Received: 07/09/14 15:00

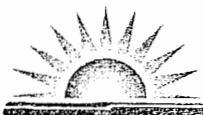
| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|------------|-----------|---------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.4 | mg/kg | .4 | 1 | DEP 1 | 07/14 | 17:18 | JCL |
| Cyanide, Total | 0.4 | mg/kg | .4 | 1 | 10204001X | 07/14 | 17:05 | JCL |
| Phenols (4AAP) | 6.2 | mg/kg | 1 | 1 | EPA 420.4 | 07/10 | 14:44 | JCL |
| Phosphorus as P, Total | 2400 | mg/kg | 5 | 1 | SM 4500P-E | 07/11 | 15:10 | HRG |
| PHYSICAL | | | | | | | | |
| Visual Color | Dark Brown | descript. | 0 | 0 | VISUAL | 07/18 | 14:00 | JXS |
| RESIDUES | | | | | | | | |
| Total Solids | 20.2 | % | 1 | 1 | SM 2540G | 07/11 | 13:45 | TMH |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Chromium, Total | 22.0 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Silver, Total | 1.1 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 10:25 | LNA |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 4645 | mg/kg | 250 | 1 | EPA 1664 | 07/15 | 03:00 | WXC |
| Silica Gel Treated N-Hexane Extract(TPH) | 1075 | mg/kg | 250 | 1 | EPA 1664 | 07/17 | 05:00 | WXC |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 0124-14-0028616
Date Collected: 07/02/14 09:55
Collected By: Client
Date Received: 07/09/14 15:00

Sample Description: Belt Press 14-6196 (Composite)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|--|------------|-----------|--------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | <2 | * mg/kg | 2 | DEP 1 | 07/14 | 17:18 | jcl |
| Cyanide, Total | 2 | * mg/kg | 2 | 10204001X | 07/14 | 17:05 | jcl |
| Phenols (4AAP) | 31 | * mg/kg | 5.0 | EPA 420.4 | 07/10 | 14:44 | jcl |
| Phosphorus as P, Total | 12000 | * mg/kg | 25 | SM 4500P-E | 07/11 | 15:10 | hrg |
| PHYSICAL | | | | | | | |
| Visual Color | Dark Brown | descript. | 0 | VISUAL | 07/18 | 14:00 | jxs |
| RESIDUES | | | | | | | |
| Total Solids | 20.2 | % | 1 | SM 2540G | 07/11 | 13:45 | tmh |
| ORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Chromium, Total | 109 | * mg/kg | 2.48 | SW846 6010 | 07/16 | 22:25 | lna |
| Silver, Total | 5.4 | * mg/kg | 2.5 | SW846 6010 | 07/16 | 10:25 | lna |
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 23000 | * mg/kg | 1238 | EPA 1664 | 07/15 | 03:00 | wxc |
| Silica Gel Treated N-Hexane Extract(TPH) | 5322 | * mg/kg | 1238 | EPA 1664 | 07/17 | 05:00 | wxc |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

Page 1 of 1

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 0124-14-0029493
Date Collected: 07/02/14 09:55
Collected By: Client
Date Received: 07/09/14 15:00

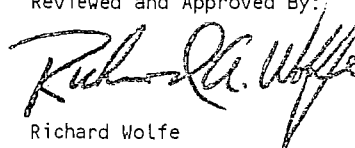
Sample Description: 14-6196, Biosolids (Total Analysis)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------------------------|---------------|---------|-----------------|----------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Reactive | <100 | * mg/kg | 100 | SW846 7.3 | 07/14 | 16:08 | jcl |
| OTHER | | | | | | | |
| Paint Filter Liquids Test | NoFreeLiquids | | 0 | SW846 9095 | 07/15 | 14:00 | hrg |
| PHYSICAL | | | | | | | |
| Corrosivity | Not Corrosive | | 0 | SW846 7.2 | 07/15 | 15:52 | ald |
| Ignitability | Not Ignitable | | 0 | SW846 1030 | 07/15 | 14:15 | hrg |
| pH | 8.14 | su | 2 | SW846 9045 | 07/10 | 12:08 | emw |
| Reactivity | Not Reactive | | 0 | SW846 7.3 | 07/15 | 15:33 | ald |
| SIDUES | | | | | | | |
| Solids, Total Volatile | 62.7 | % | 1 | SM 2540G | 07/11 | 13:35 | tmh |
| Total Solids | 20.4 | % | 1 | SM 2540G | 07/11 | 13:35 | tmh |
| TITRATIONS | | | | | | | |
| Sulfide, Reactive | <240 | * mg/kg | 240 | SW846 7.3 | 07/10 | 11:30 | ald |
| INORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Arsenic, Total | 4 | * mg/kg | 0.5 | EPA 200.9 | 07/16 | 20:12 | lna |
| Barium, Total | 468 | * mg/kg | 2.45 | SW846 6010 | 07/16 | 22:25 | lna |
| Cadmium, Total | 3 | * mg/kg | 2 | SW846 6010 | 07/16 | 22:25 | lna |
| Chromium, Total | 111 | * mg/kg | 2.45 | SW846 6010 | 07/16 | 22:25 | lna |
| Copper, Total | 510 | * mg/kg | 4.90 | SW846 6010 | 07/16 | 22:25 | lna |
| Lead, Total | 170 | * mg/kg | 4.9 | SW846 6010 | 07/16 | 22:25 | lna |
| Mercury, Total | 2 | * mg/kg | 1 | SW846 7471 | 07/16 | 14:41 | jxs |
| Molybdenum, Total | 54 | * mg/kg | 4.9 | SW846 6010 | 07/16 | 22:25 | lna |
| Nickel, Total | 47 | * mg/kg | 2.4 | SW846 6010 | 07/16 | 22:25 | lna |
| Selenium, Total | 5.4 | * mg/kg | 0.98 | EPA 200.9 | 07/17 | 03:51 | lna |
| Silver, Total | 4 | * mg/kg | 2 | SW846 6010 | 07/16 | 10:25 | lna |
| Zinc, Total | 1520 | * mg/kg | 2.45 | SW846 6010 | 07/16 | 22:25 | lna |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 0124-14-0029493
Date Collected: 07/02/14 09:55
Collected By: Client
Date Received: 07/09/14 15:00

Sample Description: 14-6196, Biosolids (Total Analysis)

* Results Expressed as Dry Weight

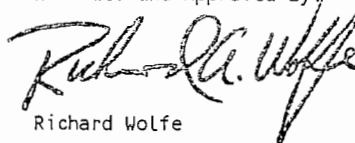
| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|------------------------------|----------|---------|--------------------|------------|--------------|--------------|---------|
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| Oil and Grease | 31500 | * mg/kg | 49.02 | EPA 1664 | 07/15 | 03:00 | wxc |
| Total Petroleum Hydrocarbons | 9608 | * mg/kg | 49.02 | EPA 1664 | 07/17 | 05:00 | wxc |
| ORGANIC | | | | | | | |
| EXTRACTION | | | | | | | |
| SW846 8082 Extraction | Complete | | 0 | SW846 8082 | 07/11 | 07:30 | rdd |
| PCBS | | | | | | | |
| PCB-1016 | <2.45 | * mg/kg | 2.45 | SW846 8082 | 07/17 | 18:03 | twh |
| PCB-1221 | <2.45 | * mg/kg | 2.45 | SW846 8082 | 07/17 | 18:03 | twh |
| PCB-1232 | <2.45 | * mg/kg | 2.45 | SW846 8082 | 07/17 | 18:03 | twh |
| PCB-1242 | <2.45 | * mg/kg | 2.45 | SW846 8082 | 07/17 | 18:03 | twh |
| PCB-1248 | <2.45 | * mg/kg | 2.45 | SW846 8082 | 07/17 | 18:03 | twh |
| PCB-1254 | <2.45 | * mg/kg | 2.45 | SW846 8082 | 07/17 | 18:03 | twh |
| PCB-1260 | <2.45 | * mg/kg | 2.45 | SW846 8082 | 07/17 | 18:03 | twh |

COMMENTS:

- 1 - Not Ignitable: No combustion after 2 minutes of direct contact with a torch's flame.
- 2 - For SW846 8082 the Blank, qc, and sample had high surrogate recoveries.
- 3 - For SW846 8082 the PCB QC had high recoveries, however PCBs were not detected in the sample above the laboratory reporting limit.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

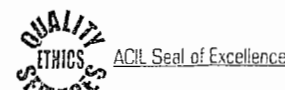
Page 2 of 2

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0029493

Date Collected: 07/02/14 09:55
Collected By: CLIENT

Sample Desc: 14-6196, Biosolids (Total Analysis)

Date Received: 07/09/14 15:00

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|---------------------------|---------------|-------|------------|---------------|------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Reactive | <25 | mg/kg | 25 | 1 | SW846 7.3 | 07/14 | 16:08 | JCL |
| OTHER | | | | | | | | |
| Paint Filter Liquids Test | NoFreeLiquids | | 0 | 0 | SW846 9095 | 07/15 | 14:00 | HRG |
| PHYSICAL | | | | | | | | |
| Corrosivity | Not Corrosive | | 0 | 0 | SW846 7.2 | 07/15 | 15:52 | ALD |
| Ignitability | Not Ignitable | | 0 | 0 | SW846 1030 | 07/15 | 14:15 | HRG |
| pH | 8.14 | su | 2 | 1 | SW846 9045 | 07/10 | 12:08 | EMW |
| Reactivity | Not Reactive | | 0 | 0 | SW846 7.3 | 07/15 | 15:33 | ALD |
| RESIDUES | | | | | | | | |
| Solids, Total Volatile | 62.7 | % | 1 | 1 | SM 2540G | 07/11 | 13:35 | TMH |
| Total Solids | 20.4 | % | 1 | 1 | SM 2540G | 07/11 | 13:35 | TMH |
| TITRATIONS | | | | | | | | |
| Sulfide, Reactive | <50 | mg/kg | 50 | 1 | SW846 7.3 | 07/10 | 11:30 | ALD |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | 0.8 | mg/kg | .1 | 1 | EPA 200.9 | 07/16 | 20:12 | LNA |
| Barium, Total | 95.4 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Cadmium, Total | 0.7 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Chromium, Total | 22.7 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Copper, Total | 104 | mg/kg | 1 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Lead, Total | 34 | mg/kg | 1 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Mercury, Total | 0.4 | mg/kg | .2 | 1 | SW846 7471 | 07/16 | 14:41 | JXS |
| Molybdenum, Total | 11 | mg/kg | 1 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Nickel, Total | 9.6 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Selenium, Total | 1.1 | mg/kg | .2 | 1 | EPA 200.9 | 07/17 | 03:51 | LNA |
| Silver, Total | 0.9 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 10:25 | LNA |
| Zinc, Total | 311 | mg/kg | .5 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |

O&G/TPH

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Technical Director





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815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0029493

Date Collected: 07/02/14 09:55
Collected By: CLIENT

Sample Desc: 14-6196, Biosolids (Total Analysis)

Date Received: 07/09/14 15:00

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------------|----------|-------|---------------|------------------|------------|--------------|--------------|---------|
| GENERAL | | | | | | | | |
| Oil and Grease | 6425 | mg/kg | 10 | 1 | EPA 1664 | 07/15 | 03:00 | WXC |
| Total Petroleum Hydrocarbons | 1960 | mg/kg | 10 | 1 | EPA 1664 | 07/17 | 05:00 | WXC |
| ORGANIC | | | | | | | | |
| EXTRACTION | | | | | | | | |
| SW846 8082 Extraction | Complete | | 0 | 0 | SW846 8082 | 07/11 | 07:30 | RDD |
| PCBS | | | | | | | | |
| PCB-1016 | <.5 | mg/kg | .5 | 1 | SW846 8082 | 07/17 | 18:03 | TWH |
| PCB-1221 | <.5 | mg/kg | .5 | 1 | SW846 8082 | 07/17 | 18:03 | TWH |
| PCB-1232 | <.5 | mg/kg | .5 | 1 | SW846 8082 | 07/17 | 18:03 | TWH |
| PCB-1242 | <.5 | mg/kg | .5 | 1 | SW846 8082 | 07/17 | 18:03 | TWH |
| PCB-1248 | <.5 | mg/kg | .5 | 1 | SW846 8082 | 07/17 | 18:03 | TWH |
| PCB-1254 | <.5 | mg/kg | .5 | 1 | SW846 8082 | 07/17 | 18:03 | TWH |
| PCB-1260 | <.5 | mg/kg | .5 | 1 | SW846 8082 | 07/17 | 18:03 | TWH |

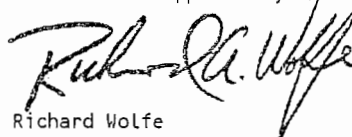
COMMENTS

01 Not Ignitable: No combustion after 2 minutes of direct contact with a torch's flame.

02 For SW846 8082 the Blank, qc, and sample had high surrogate recoveries.

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Richard Wolfe
Technical Director

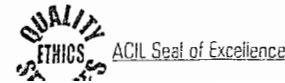
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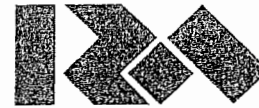
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Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0029493

Date Collected: 07/02/14 09:55
Collected By: CLIENT

Sample Desc: 14-6196, Biosolids (Total Analysis)

Date Received: 07/09/14 15:00

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|----|---|-------|---------------|------------------|-----------|--------------|--------------|---------|
| | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 03 | For SW846 8082 the PCB QC had high recoveries, however PCBs were not detected in the sample above the laboratory reporting limit. | | | | | | | |

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Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0029494

Date Collected: 07/02/14 09:55
Collected By: CLIENT

Sample Desc: 14-6196, Biosolids (TCLP Leachate Analysis)

Date Received: 07/09/14 15:00

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|----------|------|---------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| LEACHATE | | | | | | | | |
| pH, Extract Fluid | 4.91 | su | 1 | 1 | SW846 9040 | 07/11 | 09:00 | MXB |
| pH, Leachate | 5.84 | su | 1 | 1 | SW846 9040 | 07/11 | 09:00 | MXB |
| INORGANIC | | | | | | | | |
| EXTRACTION | | | | | | | | |
| TCLP Preparation | Complete | | 0 | 0 | EPA 1311 | 07/11 | 09:00 | MXB |
| TCLP | | | | | | | | |
| Arsenic, TCLP | <.05 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Barium, TCLP | 0.06 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Cadmium, TCLP | <.05 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Chromium, TCLP | <.05 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Copper, TCLP | <.05 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Iron, TCLP | <.2 | mg/l | .2 | 1 | SW846 6010 | 07/15 | 15:05 | LNA |
| Lead, TCLP | <.15 | mg/l | .15 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Mercury, TCLP | <.004 | mg/l | .004 | 1 | SW846 7470 | 07/15 | 15:54 | JXS |
| Molybdenum, TCLP | <.1 | mg/l | .1 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Nickel, TCLP | <.05 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Selenium, TCLP | <.05 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| Silver, TCLP | <.05 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 10:25 | LNA |
| Zinc, TCLP | 0.35 | mg/l | .05 | 1 | SW846 6010 | 07/16 | 22:25 | LNA |
| ORGANIC | | | | | | | | |
| ACID COMPOUNDS | | | | | | | | |
| 2,4,5-Trichlorophenol, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| 2,4,6-Trichlorophenol, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| Cresols, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| Pentachlorophenol, TCLP | <250 | ug/l | 250 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| BASE NEUTRALS | | | | | | | | |
| 2,4-Dinitrotoluene, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| Hexachlorobenzene, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |

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Technical Director

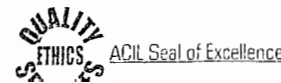
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Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0029494

Date Collected: 07/02/14 09:55
Collected By: CLIENT

Sample Desc: 14-6196, Biosolids (TCLP Leachate Analysis)

Date Received: 07/09/14 15:00

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|----------------------------------|----------|------|---------------|------------------|------------|--------------|--------------|---------|
| Hexachlorobutadiene, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| Hexachloroethane, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| Nitrobenzene, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| Pyridine, TCLP | <50 | ug/l | 50 | 1 | SW846 8270 | 07/17 | 06:29 | MEB |
| EXTRACTION | | | | | | | | |
| SM 6640B Extraction | Complete | | 0 | 0 | SM 6640B | 07/14 | 07:00 | JLV |
| SW846 8081 Extraction | Complete | | 0 | 0 | SW846 8081 | 07/16 | 10:00 | RDD |
| SW846 8270 Extraction | Complete | | 0 | 0 | SW846 8270 | 07/15 | 10:00 | RDD |
| HERBICIDES | | | | | | | | |
| 2,4,5-TP Silvex, TCLP | <1 | ug/l | 1 | 1 | SM 6640B | 07/18 | 17:58 | TWH |
| 2,4-D, TCLP | <1 | ug/l | 1 | 1 | SM 6640B | 07/18 | 17:58 | TWH |
| PESTICIDES | | | | | | | | |
| Chlordane, TCLP | <5 | ug/l | 5 | 1 | SW846 8081 | 07/17 | 06:47 | TWH |
| Endrin, TCLP | <.5 | ug/l | .5 | 1 | SW846 8081 | 07/17 | 06:47 | TWH |
| Heptachlor (and hydroxide), TCLP | <.5 | ug/l | .5 | 1 | SW846 8081 | 07/17 | 06:47 | TWH |
| Heptachlor Epoxide, TCLP | <.5 | ug/l | .5 | 1 | SW846 8081 | 07/17 | 06:47 | TWH |
| Lindane, TCLP | <.5 | ug/l | .5 | 1 | SW846 8081 | 07/17 | 06:47 | TWH |
| Methoxychlor, TCLP | <.5 | ug/l | .5 | 1 | SW846 8081 | 07/17 | 06:47 | TWH |
| Toxaphene, TCLP | <10 | ug/l | 10 | 1 | SW846 8081 | 07/17 | 06:47 | TWH |
| VOLATILES | | | | | | | | |
| 1,1-Dichloroethylene, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| 1,2-Dichlorobenzene, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| 1,2-Dichloroethane, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| 1,4-Dichlorobenzene, TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| Benzene, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| Carbon Tetrachloride, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| Chlorobenzene, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| Chloroform, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| Methyl Ethyl Ketone, ZHE TCLP | <200 | ug/l | 200 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| Tetrachloroethylene, ZHE TCLP | <50 | ug/l | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |

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Technical Director





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c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0029494

Date Collected: 07/02/14 09:55
Collected By: CLIENT

Sample Desc: 14-6196, Biosolids (TCLP Leachate Analysis)

Date Received: 07/09/14 15:00

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|--------|------|---------------|------------------|------------|--------------|--------------|---------|
| Trichloroethylene, ZHE TCLP | <50 | ug/L | 50 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |
| Vinyl Chloride, ZHE TCLP | <100 | ug/L | 100 | 1 | SW846 8260 | 07/11 | 23:46 | GXF |

COMMENTS

01 The sw846 8270 method ccv had low recovery for Pentachlorophenol.

02 For the sw846 8270 method, Pentachlorophenol had low response factor in the ccv.

03 For SM 6640B the Blank and QC samples had high surrogate recoveries, and the sample had a low surrogate recovery.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

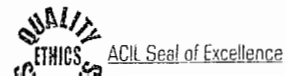
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815 Washington St.
Reading PA 19601

Date of Report: 07/24/14
Lab ID: 124-14-0029495

Date Collected: 07/02/14 09:55
Collected By: CLIENT

Sample Desc: 14-6196, Biosolids (ASTM Leachate Analysis)

Date Received: 07/09/14 15:00

| | Result | Unit | Rep. Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------------|----------|------|---------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| NITROGENS | | | | | | | | |
| Nitrogen, Ammonia | 62 | mg/L | 2 | 20 | D6919-03 | 07/17 | 12:17 | JCL |
| OTHER | | | | | | | | |
| Chemical Oxygen Demand | 260 | mg/L | 25 | 1 | HACH8000 | 07/14 | 15:10 | HRG |
| PHYSICAL | | | | | | | | |
| pH | 8.47 | su | 1 | 1 | SM4500H-B | 07/14 | 14:00 | EMW |
| RESIDUES | | | | | | | | |
| Solids, Total | 286 | mg/L | 5 | 1 | SM 2540B | 07/14 | 13:30 | TMH |
| INORGANIC | | | | | | | | |
| EXTRACTION | | | | | | | | |
| ASTM Preparation | Complete | | 0 | 0 | ASTM | 07/11 | 09:00 | MXB |
| 'TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| Oil and Grease | <10 | mg/L | 10 | 1 | EPA 1664 | 07/13 | 10:00 | WXC |
| Total Petroleum Hydrocarbons | <10 | mg/L | 10 | 1 | EPA 1664 | 07/13 | 12:30 | WXC |

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Richard Wolfe
Technical Director

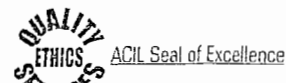
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Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042749

Date Collected: 09/22/14 08:50
Collected By: Client

Sample Desc: 14-8883 RG Grab

Date Received: 09/22/14 16:10

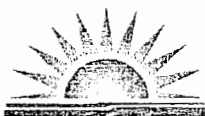
| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | 10204001X | 09/25 | 14:44 | JCL |
| Cyanide, Total | <.004 | mg/L | .004 | 1 | 10204001X | 09/25 | 14:44 | JCL |
| Phenols (4AAP) | 0.110 | mg/L | .01 | 1 | EPA 420.4 | 09/24 | 15:07 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 12 | mg/L | 5 | 1 | EPA 1664 | 09/25 | 06:30 | JLV |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 09/26 | 11:00 | JLV |

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Reviewed and Approved by:


Richard Wolfe
Technical Director

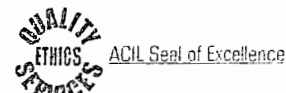
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Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042750

Date Collected: 09/21/14 08:49
Collected By: Client

Sample Desc: 14-8882 RC Composite

Date Received: 09/22/14 16:10

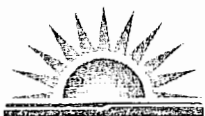
| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 7.3 | mg/L | .5 | 10 | SM 4500P-E | 09/24 | 10:55 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Antimony, Total | <.005 | mg/L | .005 | 1 | EPA 200.9 | 10/01 | 09:42 | MXB |
| Arsenic, Total | 0.014 | mg/L | .001 | 1 | EPA 200.8 | 10/08 | 01:53 | MXB |
| Beryllium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Chromium, Total | 0.007 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Copper, Total | 0.098 | mg/L | .01 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Mercury, Total | 0.0007 | mg/L | .0002 | 1 | EPA 245.1 | 09/24 | 17:49 | JXS |
| Molybdenum, Total | 0.07 | mg/L | .01 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Nickel, Total | 0.010 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| Selenium, Total | <.002 | mg/L | .002 | 1 | EPA 200.9 | 10/01 | 04:01 | MXB |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 10/02 | 11:51 | JXS |
| Thallium, Total | <.05 | mg/L | .05 | 1 | EPA 200.7 | 10/02 | 23:11 | JXS |
| Zinc, Total | 0.009 | mg/L | .005 | 1 | EPA 200.7 | 09/29 | 02:06 | JXS |
| ORGANIC | | | | | | | | |
| ACID COMPOUNDS | | | | | | | | |
| 2,4,6-Trichlorophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2,4-Dichlorophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2,4-Dimethylphenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2,4-Dinitrophenol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2-Chlorophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2-Nitrophenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 4,6-Dinitro-o-cresol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 4-Chloro-3-methylphenol | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 4-Nitrophenol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 20:31 | MEB |

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CERTIFICATE OF ANALYSIS

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Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042750

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Collected By: Client

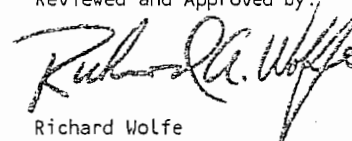
Sample Desc: 14-8882 RC Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|---------------------------------------|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| Pentachlorophenol | <25 | ug/L | 25 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Phenol | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| BASE NEUTRALS | | | | | | | | |
| 1,2,4-Trichlorobenzene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 1,2-Diphenylhydrazine (as Azobenzene) | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2,4-Dinitrotoluene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2,6-Dinitrotoluene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 2-Chloronaphthalene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 3,3'-Dichlorobenzidine | <50 | ug/L | 50 | 2 | EPA 625 | 09/30 | 13:39 | MEB |
| 3,4-Benzofluoranthene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 4-Bromophenyl phenyl ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| 4-Chlorophenyl phenyl ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Acenaphthene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Acenaphthylene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Anthracene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Benzidine | <50 | ug/L | 50 | 2 | EPA 625 | 09/30 | 13:39 | MEB |
| Benzo(a)anthracene | <10 | ug/L | 10 | 2 | EPA 625 | 09/30 | 13:39 | MEB |
| Benzo(a)pyrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Benzo(ghi)perylene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Benzo(k)fluoranthene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Bis(2-chloroethoxy)methane | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Bis(2-Chloroethyl) ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Bis(2-Chloroisopropyl) ether | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Bis(2-Ethylhexyl) phthalate | <10 | ug/L | 10 | 2 | EPA 625 | 09/30 | 13:39 | MEB |
| Butyl benzyl phthalate | <10 | ug/L | 10 | 2 | EPA 625 | 09/30 | 13:39 | MEB |
| Chrysene | <10 | ug/L | 10 | 2 | EPA 625 | 09/30 | 13:39 | MEB |
| Di-n-butyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Di-n-octyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Dibenz(a,h)anthracene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Diethyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |

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Reading PA 19601

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Collected By: Client

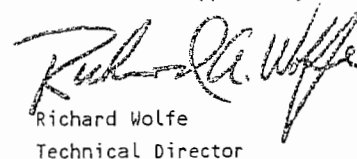
Sample Desc: 14-8882 RC Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-------------------------------|-------------|------|-----------|---------------|-----------|-----------|-----------|---------|
| Dimethyl phthalate | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Fluoranthrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Fluorene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Hexachlorobenzene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Hexachlorocyclopentadiene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Hexachloroethane | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Indeno(1,2,3-cd)pyrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Isophorone | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Library Search, Semivolatiles | see comment | ug/L | 40 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| N-Nitrosodi-n-propylamine | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| N-Nitrosodimethylamine | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| N-Nitrosodiphenylamine | <10 | ug/L | 10 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Naphthalene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Nitrobenzene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Phenanthrene | <5 | ug/L | 5 | 1 | EPA 625 | 09/29 | 20:31 | MEB |
| Pyrene | <10 | ug/L | 10 | 2 | EPA 625 | 09/30 | 13:39 | MEB |
| EXTRACTION | | | | | | | | |
| EPA 608 Extraction | Complete | | 0 | 0 | EPA 608 | 09/25 | 10:00 | MCM |
| EPA 625 Extraction | Complete | | 0 | 0 | EPA 625 | 09/24 | 09:00 | MCM |
| PCBS | | | | | | | | |
| PCB-1016 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| PCB-1221 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| PCB-1232 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| PCB-1242 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| PCB-1248 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| PCB-1254 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| PCB-1260 | <.2 | ug/L | .2 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| PESTICIDES | | | | | | | | |
| 4,4'-DDD | <.02 | ug/L | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| 4,4'-DDE | <.02 | ug/L | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |

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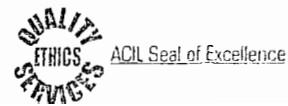

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Collected By: Client

Sample Desc: 14-8882 RC Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|---------------------|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| 4,4'-DDT | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Aldrin | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| alpha-BHC | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| beta-BHC | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Chlordane | <.5 | ug/l | .5 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| delta-BHC | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Dieldrin | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Endosulfan I | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Endosulfan II | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Endosulfan sulfate | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Endrin | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Endrin aldehyde | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Heptachlor | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Heptachlor Epoxide | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Lindane (Gamma BHC) | <.02 | ug/l | .02 | 1 | EPA 608 | 09/30 | 06:11 | LAK |
| Toxaphene | <.5 | ug/l | .5 | 1 | EPA 608 | 09/30 | 06:11 | LAK |

COMMENTS

- 01 EPA 608 method surrogate had low recoveries in the sample and matrix spike.
- 02 EPA 608 method ending CCV and matrix spike had recoveries outside of laboratory limits due to sample matrix interference.

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Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|----|---|------|--------------|------------------|-----------|--------------|--------------|---------|
| 03 | The elevated reporting limits for some of the semi-volatiles was due to sample matrix interference. | | | | | | | |
| 04 | The epa 625 method QC had low recovery for Benzidine, Hexachloroethane, 2-Chloronaphthalene. | | | | | | | |
| 05 | The svoc library search tentatively identified:Tricosane, Eicosane, Squalene and Cholestan-3-ol. | | | | | | | |
| 06 | The epa 625 method ccv was low for several compounds but the QC was fine for these compounds. | | | | | | | |

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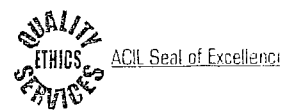
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Reading PA 19601

Date of Report: 10/10/14
Lab ID: 124-14-0042751

Date Collected: 09/22/14 10:46
Collected By: Client


Sample Desc: 14-8903 RG 4 Grab/Lab Composite

Date Received: 09/22/14 16:10

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|---|-------------|------|--------------|------------------|-----------|--------------|--------------|---------|
| ORGANIC | | | | | | | | |
| VOLATILES | | | | | | | | |
| 1,1,1-Trichloroethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,1,2,2-Tetrachloroethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,1,2-Trichloroethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,1-Dichloroethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,1-Dichloroethylene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,2-Dichloroethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,2-Dichloropropane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,3-Dichlorobenzene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 1,4-Dichlorobenzene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| 2-Chloroethylvinyl Ether | <5 | ug/l | 5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Acrolein | <2 | ug/l | 2 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Acrylonitrile | <2 | ug/l | 2 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Benzene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Bromoform (Tribromomethane) | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Bromomethane (Methyl Bromide) | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Carbon Tetrachloride | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Chlorobenzene (Monochlorobenzene) | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Chlorodibromomethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Chloroethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Chloroform | 5.0 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Chloromethane (Methyl Chloride) | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| cis-1,2-Dichloroethylene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| cis-1,3-Dichloropropylene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Dichlorobromomethane | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Ethylbenzene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Hexachlorobutadiene | <.5 | ug/l | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Library Search, Volatiles | see comment | ug/l | 15 | 1 | EPA 624 | 09/23 | 21:40 | GXF |

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| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|-----------------------------|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| Methylene Chloride | 0.7 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Tetrachloroethylene | 0.6 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Toluene | 4.6 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| trans-1,2-Dichloroethylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| trans-1,3-Dichloropropylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Trichloroethylene | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Trichlorofluoromethane | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Vinyl Chloride | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |
| Xylenes (Total) | <.5 | ug/L | .5 | 1 | EPA 624 | 09/23 | 21:40 | GXF |

COMMENTS

- /1 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, Carbon disulfide, Methanethiol, and 1 unknown compound.

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CHAIN OF CUSTODY RECORD

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(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 43125

Page 1 of 2

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1 / 1 / 1

1. Client (Company or Individual):

City of Reading

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Priority Pollutants

4. P.O. No.:

124

5. Samples Name:

RLS LNA

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

Container Codes (for item 13)

SIZE TYPE
2L = 2 Liter V = VOA vial
L = Liter G = Glass
500 = 500ml P = Plastic
250 = 250ml M = Micro
125 = 125ml O = Other
40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid T = NA2S2O3
C = HCl E = EDTA
N = HNO3 L = NH4Cl
S = H2SO4 Z = Zinc Acetate
P = H3PO4 V = Ascorbic/HCl
H = NaOH O = Other
M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Y

N

Samples received on ice?

Y

N

Sample Containers Intact?

Y

N

VOC's Free of Headspace?

Y

N

COC Seal Intact or attached?

Y

N

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: EB

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

✓ Composite VOA's

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

Total # of Containers

1/6

1/6

1/6

1/6

1/6

1/6

1/6

1/6

13. Container: Size / Type

C

S

H

C

P

S

1

14. Preservative

15.

Analyses Requested

Oil and Grease ^{HMT} _{SGTHM}

Phenols (T)

Cyanide Total & Free

VOA ~~X~~ 624

As, Ag, Be, Cd, Cr, Cu, Hg, Mo, Ni

Pb, Tl, Se, Sb, Zn

Phosphorus (T)

625, 608

VOA 624

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: AS Approved by: TST hrs

Comments:

09-22-14

1550

09-22-14

1610

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

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DISTRIBUTION: White: Report; Yellow: Submitter

R 43130Page 2 of 2

6. Report Type:

☒ Routine
☐ Standard QC
☐ Data Package

1. Client (Company or Individual):

Address: _____

City: _____

State: _____

ZIP: _____

Phone: _____

FAX: _____

2. Invoice To: (If different from above)

Address: _____

City: _____

State: _____

ZIP: _____

Phone: _____

FAX: _____

7. Turnaround Time

☒ Standard

3. Client Project Name / #:

124

4. P.O. No.:

5. Samples Name:

RUSH: ____/____/____

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other _____

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = NA2S2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other _____

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: EB

17. SPECIAL INSTRUCTIONS/COMMENTS:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/Realty

PWSID # _____

☐ NPDES

16.

Total # of Containers

MJRA
ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

4th Quarter
2 Quarterly samples

Date of Report: 10/28/14
Lab ID: 0124-14-0046768
Date Collected: 10/14/14 09:30
Collected By: Client
Date Received: 10/15/14 15:40

Sample Description: 14-9672 (Composite, Quarterly Sludge)

* Results Expressed as Dry Weight

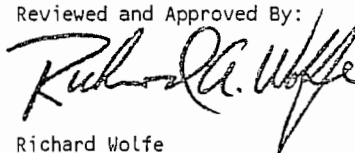
| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|--|-------------|---------|-----------------|------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | 3 | * mg/kg | 2 | DEP 1 | 10/20 | 16:32 | jcl |
| Cyanide, Total | 5.9 | * mg/kg | 2.2 | 10204001X | 10/20 | 16:20 | jcl |
| Phenols (4AAP) | 30 | * mg/kg | 5.4 | EPA 420.4 | 10/16 | 15:48 | jcl |
| Phosphorus as P, Total | 16400 | * mg/kg | 26.9 | SM 4500P-E | 10/27 | 12:35 | hrg |
| PHYSICAL | | | | | | | |
| Visual Color | see comment | color | 1 | VISUAL | 10/22 | 09:06 | dsm |
| RESIDUES | | | | | | | |
| Total Solids | 18.6 | % | 1 | SM 2540G | 10/21 | 13:40 | tmh |
| ORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Chromium, Total | 112 | * mg/kg | 2.69 | SW846 6010 | 10/21 | 23:34 | jxs |
| Silver, Total | 5.9 | * mg/kg | 2.7 | SW846 6010 | 10/27 | 16:33 | jxs |
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 41690 | * mg/kg | 1344 | EPA 1664 | 10/21 | 07:00 | jlw |
| Silica Gel Treated N-Hexane Extract(TPH) | 14350 | * mg/kg | 1344 | EPA 1664 | 10/27 | 06:15 | jlw |

COMMENTS:

- 1 - Visual Color of sample was dark brown with white specs
- 2 - Name of Sampler was not supplied to MJRA by the client.
- 3 - The total Cyanide matrix spike was low indicating possible sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:



Richard Wolfe
Technical Director

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M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

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R 43166

Page 1 of 1

6. Report Type:

- ☒ Routine
☐ Standard QC
☐ Data Package

7. Turnaround Time

- ☒ Standard
RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

PA

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Quarterly

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

124

4. P.O. No.:

5. Samples Name:

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

Container Codes (for item 13)

SIZE

TYPE

2L = 2 Liter
L = Liter
500 = 500ml
250 = 250ml
125 = 125ml
40 = 40ml
V = VOA vial
G = Glass
P = Plastic
M = Micro
O = Other

Preservative Code (for item 14)

A = Ascorbic Acid
C = HCl
N = HNO3
S = H2SO4
P = H3PO4
H = NaOH
T = NA2S2O3
E = EDTA
L = NH4Cl
Z = Zinc Acetate
V = Ascorbic/HCl
O = Other
M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on Ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Y
Y
Y
Y
Y

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: EJD

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

17. SPECIAL INSTRUCTIONS/COMMENTS:

* Report Sludges on mg/kg dry weight

MJRA
ID #

9. Sample
Description

10.

11.

12.

Date

Time

Composite

Grab

Matrix

16. Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

46768
14-9672

10/14/14 930 X O 2 2

Ag, Cr, Total phosphorus
CN (Tot. + Free), Phenols
Oil + Grease (Hem. Sol. Hem.)
TS, Visual Color

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/03/14
Lab ID: 0124-14-0050276
Date Collected: 11/05/14 07:55
Collected By: Client
Date Received: 11/05/14 15:15

Sample Description: Belt Press Sludge 14-10428 (Composite)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|--|-------------|---------|--------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | 3 | * mg/kg | 2 | DEP 1 | 11/12 | 17:34 | jcl |
| Cyanide, Total | 4 | * mg/kg | 2 | 10204001X | 11/12 | 17:25 | jcl |
| Phenols (4AAP) | 37 | * mg/kg | 5.4 | EPA 420.4 | 11/11 | 16:42 | jcl |
| Phosphorus as P, Total | 15700 | * mg/kg | 26.9 | SM 4500P-E | 11/12 | 15:50 | hrg |
| PHYSICAL | | | | | | | |
| Visual Color | see comment | color | 1 | VISUAL | 11/18 | 13:50 | dsm |
| RESIDUES | | | | | | | |
| Total Solids | 18.6 | % | 1 | SM 2540G | 11/07 | 15:40 | tmh |
| INORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Arsenic, Total | 3 | * mg/kg | 0.5 | EPA 200.9 | 11/27 | 02:47 | mxh |
| Chromium, Total | 102 | * mg/kg | 2.69 | SW846 6010 | 11/11 | 12:59 | jxs |
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 32930 | * mg/kg | 1344 | EPA 1664 | 11/17 | 06:30 | jlv |
| Silica Gel Treated N-Hexane Extract(TPH) | 10500 | * mg/kg | 1340 | EPA 1664 | 11/19 | 06:30 | jlv |

COMMENTS:

1 - Visual Color of sample was Charcoal Black

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe
Technical Director

Page 1 of 1

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M. J. Reider Associates, Inc.
107 Angelica Street
Reading, PA 19611
Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

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R 43212

Page 1 of 1

6. Report Type:

☒ Routine
☐ Standard QC
☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: _____

1. Client (Company or Individual):

City of Reading

Address: _____

City: _____

State: _____

ZIP: _____

Phone: _____

FAX: _____

2. Invoice To: (If different from above)

Address: _____

City: _____

State: _____

ZIP: _____

Phone: _____

FAX: _____

3. Client Project Name / #:

Lib #129

4. P.O. No.:

5. Samples Name:

DM

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other _____

Container Codes (for item 13)

SIZE TYPE
2L = 2 Liter V = VOA vial
L = Liter G = Glass
500 = 500ml P = Plastic
250 = 250ml M = Micro
125 = 125ml O = Other
40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid T = NA2S2O3
C = HCl E = EDTA
N = HNO3 L = NH4Cl
S = H2SO4 Z = Zinc Acetate
P = H3PO4 V = Ascorbic/HCl
H = NaOH O = Other
M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C? ☒ Y ☒ N

Samples received on ice? ☒ Y ☒ N

Sample Containers intact? ☒ Y ☒ N

VOC's Free of Headspace? ☒ Y ☒ N

COC Seal Intact or attached? ☒ Y ☒ N

Samples Shipped or Hand Delivered

Method of Shipment: _____

Tracking #: _____

Cooler Return Fee: _____

ICE CHEST NUMBER: _____

Checked by: EJB

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID # _____

☐ NPDES

16.

* Report sludge as mg/kg dry weight

MJRA

ID #

9. Sample

Description

10.

Date

11.

Time

12.

Composite

13.

Grab

14.

Matrix

Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Ag, Cr, Phosphorus(T), Cyanide T+P,
Phenols, O. and Grease (Hem +
SUTHEM), TS, Visual Color

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: *IN*

Approved by: _____

TST hrs

Comments: _____

11/5/14

1450

11/5/14

1513

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/04/14
Lab ID: 124-14-0052462

Date Collected: 11/18/14 08:35
Collected By: Client

Sample Desc: RG 14-10855 (Grab, Quarterly)

Date Received: 11/19/14 14:50

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 11/20 | 17:29 | JCL |
| Cyanide, Total | 0.004 | mg/L | .004 | 1 | 10204001X | 11/20 | 17:21 | JCL |
| Phenols (4AAP) | 0.069 | mg/L | .01 | 1 | EPA 420.4 | 11/20 | 14:51 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 14 | mg/L | 5 | 1 | EPA 1664 | 11/24 | 06:30 | JLV |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 11/28 | 07:00 | JLV |

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/04/14
Lab ID: 124-14-0052463

Date Collected: 11/17/14 08:34
Collected By: Client

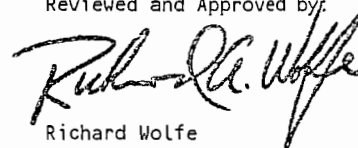
Sample Desc: RC 14-10850 (Composite, Quarterly)

Date Received: 11/19/14 14:50

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 6.6 | mg/l | .5 | 10 | SM 4500P-E | 11/20 | 11:10 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | 0.011 | mg/l | .001 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Cadmium, Total | <.005 | mg/l | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Chromium, Total | 0.012 | mg/l | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Copper, Total | 0.017 | mg/l | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Lead, Total | 0.01 | mg/l | .01 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Mercury, Total | <.0001 | mg/l | .0001 | 1 | EPA 245.1 | 11/20 | 14:14 | AEH |
| Molybdenum, Total | 0.02 | mg/l | .01 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Nickel, Total | 0.008 | mg/l | .005 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Silver, Total | <.005 | mg/l | .005 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Zinc, Total | 0.327 | mg/l | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

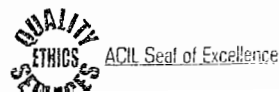
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M. J. Reider Associates, Inc.

107 Angelica Street

Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

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R 43217

Page 1 of 1

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

4. P.O. No.:

5. Samples Name:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO₃

S = H₂SO₄

P = H₃PO₄

H = NaOH

T = NA₂S₂O₃

E = EDTA

L = NH₄Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on Ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

| 1/6 | 500/6 | 500/2 | 500/5 | 500/2 | | | |
|-----|-------|-------|-------|-------|--|--|--|
| C | S | H | I | I | | | |
| | | | | | | | |

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Oil and Grease (HEM + SG-THEM)

Phenols (T)

Cyanide (Total + Free)

Phosphorus (T)

Ag, As, Cd, Cr, Cu, Hg, Mn, Ni, Pb, Zn

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

Total # of Containers

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

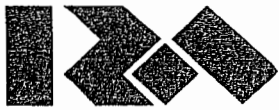
Entered by:

Approved by:

TST: hrs

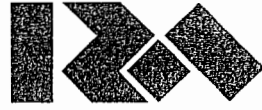
Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/04/14
Lab ID: 124-14-0052464

Date Collected: 11/18/14 08:00
Collected By: Client

Sample Desc: FG 14-10847 (Grab, Quarterly)

Date Received: 11/19/14 14:50

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | 10204001X | 11/20 | 17:22 | JCL |
| Cyanide, Total | <.004 | mg/L | .004 | 1 | 10204001X | 11/20 | 17:22 | JCL |
| Phenols (4AAP) | 0.058 | mg/L | .01 | 1 | EPA 420.4 | 11/20 | 14:51 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | <5 | mg/L | 5 | 1 | EPA 1664 | 11/24 | 06:30 | JLV |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 11/28 | 07:00 | JLV |

COMMENTS

- J1 The EPA 1664A spike of this sample had recovery outside of the recommended range.

Distribution of Reports:

Reviewed and Approved by

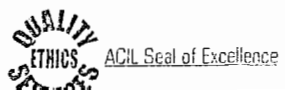
Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/04/14
Lab ID: 124-14-0052465

Date Collected: 11/17/14 07:59
Collected By: Client

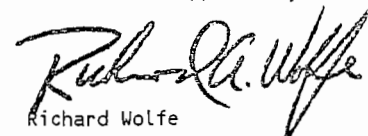
Sample Desc: FC 14-10850 (Composite, Quarterly)

Date Received: 11/19/14 14:50

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 3.4 | mg/L | .5 | 10 | SM 4500P-E | 11/20 | 11:10 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | 0.012 | mg/L | .001 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Chromium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Copper, Total | 0.018 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Mercury, Total | <.0001 | mg/L | .0001 | 1 | EPA 245.1 | 11/20 | 14:14 | AEH |
| Molybdenum, Total | 0.02 | mg/L | .01 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Nickel, Total | 0.006 | mg/L | .005 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.8 | 12/02 | 02:13 | MXB |
| Zinc, Total | 0.070 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

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**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 43218Page 1 of 1**6. Report Type:**

- ☒ Routine
☐ Standard QC
☐ Data Package

7. Turnaround Time☒ StandardRUSH: 1 / 1 / 1**1. Client (Company or Individual):**

City of Reading

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Quarterly

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Lab #124

4. P.O. No.:**5. Samples Name:**

JAF

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other _____

Container Codes (for item 13)

| SIZE | TYPE |
|--------------|--------------|
| 2L = 2 Liter | V = VOA vial |
| L = Liter | G = Glass |
| 500 = 500ml | P = Plastic |
| 250 = 250ml | M = Micro |
| 125 = 125ml | O = Other |
| 40 = 40ml | |

Preservative Code (for item 14)

| | |
|---------------------------|------------------|
| A = Ascorbic Acid | T = NA2S2O3 |
| C = HCl | E = EDTA |
| N = HNO3 | L = NH4Cl |
| S = H2SO4 | Z = Zinc Acetate |
| P = H3PO4 | V = Ascorbic/HCl |
| H = NaOH | O = Other _____ |
| M = Monochloroacetic Acid | |

Sample Receipt Information

Temperature @ 4C? ☒ Y
Samples received on ice? ☒ Y
Sample Containers Intact? ☒ Y
VOC's Free of Headspace? ☒ Y
COC Seal Intact or attached? ☒ Y

Samples Shipped or Hand Delivered

Method of Shipment: S
Tracking #: _____
Cooler Return Fee: _____
ICE CHEST NUMBER: _____
Checked by: BSW

8. COMPLIANCE PURPOSE:☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/Realty

PWSID # _____

☐ NPDES**16.**

Total # of Containers

| 1/6 | 50% C | 50% P | 50% S | 50% F | | |
|-----|-------|-------|-------|-------|--|--|
| C | S | H | S | N | | |
| | | | | | | |

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

↓

Oil and Grease (HEM + SETHEM)
Phenols (+)
Cyanide (Total + Free)
Phosphorus (T)
As, Ag, Cd, Cr, Cu, Hg, Mn, Ni, Pb, Zn

MJRA ID #**9. Sample Description****10.**

Date

Time

11.

Composite

Grab

Matrix

12.

S2464
S2465

FG 14-10847
FC 14-10846

| | | | | | | |
|----------|-----|--|---|---|---|---|
| 11/18/14 | 800 | | X | W | 4 | 2 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

18. RELINQUISHED BY**19. RECEIVED BY****DATE**

11-19-14
11-19-14

TIME

1445
1450

Entered by:**Approved by:**

Comments:

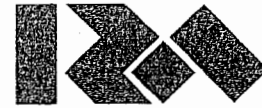
TST _____ hrs

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reid Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/08/14
Lab ID: 124-14-0052470

Date Collected: 11/18/14 08:11
Collected By: Client

Sample Desc: 6th 14-10866 (Grab, Quarterly)

Date Received: 11/19/14 14:50

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 11/20 | 17:31 | JCL |
| Cyanide, Total | 0.007 | mg/L | .004 | 1 | 10204001X | 11/20 | 17:23 | JCL |
| Phenols (4AAP) | 0.148 | mg/L | .01 | 1 | EPA 420.4 | 11/20 | 14:53 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 32 | mg/L | 5 | 1 | EPA 1664 | 11/24 | 06:30 | JLV |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 11/28 | 07:00 | JLV |

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/08/14
Lab ID: 124-14-0052471

Date Collected: 11/17/14 08:10
Collected By: Client

Sample Desc: 6th 14-10865 (Composite, Quarterly)

Date Received: 11/19/14 14:50

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 4.4 | mg/L | .5 | 10 | SM 4500P-E | 11/20 | 11:10 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | 0.009 | mg/L | .001 | 1 | EPA 200.8 | 12/05 | 02:28 | BTG |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Chromium, Total | 0.020 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Copper, Total | 0.137 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Lead, Total | 0.02 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Mercury, Total | <.0001 | mg/L | .0001 | 1 | EPA 245.1 | 11/20 | 14:14 | AEH |
| Molybdenum, Total | 0.06 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Nickel, Total | 0.010 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 12/04 | 13:46 | JXS |
| Zinc, Total | 0.328 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |

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Reviewed and Approved by:


Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/08/14
Lab ID: 124-14-0052468

Date Collected: 11/18/14 07:56
Collected By: Client

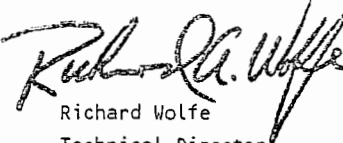
Sample Desc: GC 14-10868 (Grab, Quarterly)

Date Received: 11/19/14 14:50

| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|--|--------|------|--------------|------------------|-----------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Cyanide, Free | <.004 | mg/L | .004 | 1 | DEP 1 | 11/20 | 17:30 | JCL |
| Cyanide, Total | 0.004 | mg/L | .004 | 1 | 10204001X | 11/20 | 17:23 | JCL |
| Phenols (4AAP) | 0.087 | mg/L | .01 | 1 | EPA 420.4 | 11/20 | 14:52 | JCL |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | 10 | mg/L | 5 | 1 | EPA 1664 | 11/24 | 06:30 | JLV |
| Silica Gel Treated N-Hexane Extract(TPH) | <5 | mg/L | 5 | 1 | EPA 1664 | 11/28 | 07:00 | JLV |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/08/14
Lab ID: 124-14-0052469

Date Collected: 11/17/14 07:55
Collected By: Client

Sample Desc: GC 14-10867 (Composite, Quarterly)

Date Received: 11/19/14 14:50

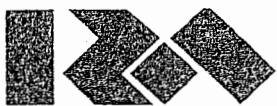
| | Result | Unit | Rep Limit | Dilutn Factor | Procedure | Test Date | Test Time | Analyst |
|------------------------|--------|------|--------------|------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | | |
| COLORMETRIC | | | | | | | | |
| Phosphorus as P, Total | 4.2 | mg/L | .5 | 10 | SM 4500P-E | 11/20 | 11:10 | HRG |
| INORGANIC | | | | | | | | |
| TOTAL | | | | | | | | |
| Arsenic, Total | 0.011 | mg/L | .001 | 1 | EPA 200.8 | 12/05 | 02:28 | BTG |
| Cadmium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Chromium, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Copper, Total | 0.032 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Lead, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Mercury, Total | <.0001 | mg/L | .0001 | 1 | EPA 245.1 | 11/20 | 14:14 | AEH |
| Molybdenum, Total | <.01 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Nickel, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |
| Silver, Total | <.005 | mg/L | .005 | 1 | EPA 200.7 | 12/04 | 13:46 | JXS |
| Zinc, Total | 0.219 | mg/L | .01 | 1 | EPA 200.7 | 11/26 | 00:28 | JXS |

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director





CERTIFICATE OF ANALYSIS

M.J. Reid Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044950
Date Collected: 10/02/14 11:34
Collected By: Client
Date Received: 10/03/14 14:55

Sample Description: 14-9273 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------------------------|-------------|---------|-----------------|----------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | <2 | * mg/kg | 2 | DEP 1 | 10/09 | 16:34 | jcl |
| Cyanide, Total | 5 | * mg/kg | 2 | 10204001X | 10/09 | 16:26 | jcl |
| Phenols (4AAP) | 34 | * mg/kg | 5.4 | EPA 420.4 | 10/08 | 17:16 | jcl |
| Phosphorus as P, Total | 11400 | * mg/kg | 27.0 | SM 4500P-E | 10/13 | 12:40 | hrq |
| NITROGENS | | | | | | | |
| Nitrogen, Ammonia | 7600 | * mg/kg | 540 | EPA 350.1 | 10/09 | 13:38 | jcl |
| OTHER | | | | | | | |
| Biochemical Oxygen Demand | 70300 | * mg/kg | 1080 | SM 5210B | 10/06 | 14:25 | emw |
| 'SICAL | | | | | | | |
| Visual Color | see comment | color | 1 | VISUAL | 10/22 | 09:04 | dsm |
| RESIDUES | | | | | | | |
| Total Solids | 18.5 | % | 1 | SM 2540G | 10/08 | 14:15 | tmh |
| INORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Antimony, Total | <27.0 | * mg/kg | 27.0 | SW846 6010 | 10/07 | 01:46 | jxs |
| Arsenic, Total | 2 | * mg/kg | 0.5 | EPA 200.9 | 10/09 | 19:57 | mxh |
| Beryllium, Total | <2.70 | * mg/kg | 2.70 | SW846 6010 | 10/07 | 01:46 | jxs |
| Cadmium, Total | 3 | * mg/kg | 3 | SW846 6010 | 10/07 | 01:46 | jxs |
| Chromium, Total | 103 | * mg/kg | 2.70 | SW846 6010 | 10/07 | 01:46 | jxs |
| Copper, Total | 507 | * mg/kg | 2.70 | SW846 6010 | 10/07 | 01:46 | jxs |
| Lead, Total | 120 | * mg/kg | 27 | SW846 6010 | 10/07 | 01:46 | jxs |
| Mercury, Total | 2 | * mg/kg | 1 | SW846 7471 | 10/14 | 09:39 | jxs |
| Molybdenum, Total | 76 | * mg/kg | 5.4 | SW846 6010 | 10/07 | 01:46 | jxs |
| Nickel, Total | 52 | * mg/kg | 2.7 | SW846 6010 | 10/07 | 01:46 | jxs |
| Selenium, Total | 4 | * mg/kg | 1 | EPA 200.9 | 10/10 | 01:01 | mxh |
| Silver, Total | 5.9 | * mg/kg | 2.7 | SW846 6010 | 10/09 | 13:40 | jxs |
| Thallium, Total | <27.0 | * mg/kg | 27.0 | SW846 6010 | 10/07 | 01:46 | jxs |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reid Associates, Inc.

Reviewed and Approved By:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044950
Date Collected: 10/02/14 11:34
Collected By: Client
Date Received: 10/03/14 14:55

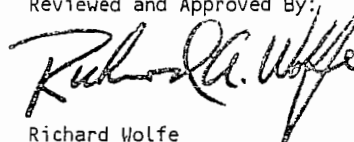
Sample Description: 14-9273 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|--|-------------|---------|-----------------|----------------|-----------|-----------|---------|
| Zinc, Total | 1600 | * mg/kg | 2.70 | SW846 6010 | 10/07 | 01:46 | jxs |
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 19320 | * mg/kg | 1351 | EPA 1664 | 10/08 | 06:30 | jl v |
| Silica Gel Treated N-Hexane Extract(TPH) | 6189 | * mg/kg | 1351 | EPA 1664 | 10/09 | 06:30 | jl v |
| ORGANIC | | | | | | | |
| ACID COMPOUNDS | | | | | | | |
| 2,4,6-Trichlorophenol | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2,4-Dichlorophenol | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2,4-Dimethylphenol | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2,4-Dinitrophenol | <270 | * mg/kg | 270 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2-Chlorophenol | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2-Nitrophenol | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 4,6-Dinitro-o-cresol | <270 | * mg/kg | 270 | SW846 8270 | 10/08 | 19:39 | m eb |
| 4-Chloro-3-methylphenol | <108 | * mg/kg | 108 | SW846 8270 | 10/08 | 19:39 | m eb |
| 4-Nitrophenol | <270 | * mg/kg | 270 | SW846 8270 | 10/08 | 19:39 | m eb |
| Pentachlorophenol | <270 | * mg/kg | 270 | SW846 8270 | 10/08 | 19:39 | m eb |
| Phenol | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| BASE NEUTRALS | | | | | | | |
| 1,2,4-Trichlorobenzene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 1,2-Diphenylhydrazine (as Azobenzene) | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 1,3-Dichlorobenzene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 1,4-Dichlorobenzene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2,3,7,8-Tetrachlorodibenzodioxin | see comment | mg/kg | 2.5 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2,4-Dinitrotoluene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2,6-Dinitrotoluene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 2-Chloronaphthalene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | m eb |
| 3,3'-Dichlorobenzidine | <108 | * mg/kg | 108 | SW846 8270 | 10/08 | 19:39 | m eb |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

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Reviewed and Approved By:


Richard Wolfe

Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044950

Date Collected: 10/02/14 11:34
Collected By: Client

Date Received: 10/03/14 14:55

Sample Description: 14-9273 Belt Press (Composite, Local Limits)

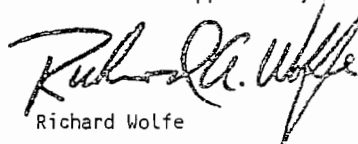
* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|------------------------------|---------|---------|--------------------|------------|--------------|--------------|---------|
| 3,4-Benzofluoranthene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| 4-Bromophenyl phenyl ether | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| 4-Chlorophenyl phenyl ether | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Acenaphthene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Acenaphthylene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Anthracene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Benzidine | <108 | * mg/kg | 108 | SW846 8270 | 10/08 | 19:39 | meb |
| Benzo(a)anthracene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Benzo(a)pyrene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Benzo(ghi)perylene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| benzo(k)fluoranthene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Bis(2-chloroethoxy)methane | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Bis(2-Chloroethyl) ether | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Bis(2-Chloroisopropyl) ether | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Bis(2-Ethylhexyl) phthalate | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Butyl benzyl phthalate | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Chrysene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Di-n-butyl phthalate | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Di-n-octyl phthalate | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Dibenz(a,h)anthracene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Diethyl phthalate | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Dimethyl phthalate | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Fluoranthrene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Fluorene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Hexachlorobenzene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Hexachlorobutadiene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Hexachlorocyclopentadiene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Hexachloroethane | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |
| Indeno(1,2,3-cd)pyrene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | meb |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

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Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab*ID: 0124-14-0044950
Date Collected: 10/02/14 11:34
Collected By: Client
Date Received: 10/03/14 14:55

Sample Description: 14-9273 Belt Press (Composite, Local Limits)


* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|-------------------------------|-------------|---------|--------------------|------------|--------------|--------------|---------|
| Isophorone | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| Library Search, Semivolatiles | see comment | mg/kg | 2.5 | EPA 625 | 10/07 | 19:36 | mcb |
| N-Nitrosodi-n-propylamine | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| N-Nitrosodimethylamine | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| N-Nitrosodiphenylamine | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| Naphthalene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| Nitrobenzene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| Phenanthrene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| Pyrene | <54.0 | * mg/kg | 54.0 | SW846 8270 | 10/08 | 19:39 | mcb |
| EXTRACTION | | | | | | | |
| W846 8081 Extraction | Complete | | 0 | SW846 8081 | 10/08 | 08:45 | mcm |
| SW846 8270 Extraction | Complete | | 0 | SW846 8270 | 10/06 | 08:30 | rdd |
| PCBS | | | | | | | |
| PCB-1016 | <5.40 | * mg/kg | 5.40 | SW846 8082 | 10/10 | 10:53 | lak |
| PCB-1221 | <5.40 | * mg/kg | 5.40 | SW846 8082 | 10/10 | 10:53 | lak |
| PCB-1232 | <5.40 | * mg/kg | 5.40 | SW846 8082 | 10/10 | 10:53 | lak |
| PCB-1242 | <5.40 | * mg/kg | 5.40 | SW846 8082 | 10/10 | 10:53 | lak |
| PCB-1248 | <5.40 | * mg/kg | 5.40 | SW846 8082 | 10/10 | 10:53 | lak |
| PCB-1254 | <5.40 | * mg/kg | 5.40 | SW846 8082 | 10/10 | 10:53 | lak |
| PCB-1260 | <5.40 | * mg/kg | 5.40 | SW846 8082 | 10/10 | 10:53 | lak |
| PESTICIDES | | | | | | | |
| 4,4'-DDD | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| 4,4'-DDE | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| 4,4'-DDT | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Aldrin | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| alpha-BHC | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| beta-BHC | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Chlordane | <27.0 | * mg/kg | 27.0 | SW846 8081 | 10/10 | 10:53 | lak |
| delta-BHC | <27.0 | * mg/kg | 27.0 | SW846 8081 | 10/10 | 10:53 | lak |

Distribution of Report:
Amy L. Morriss - City of Reading WWT

M. J. Reider Associates, Inc.

Reviewed and Approved By:



Richard Wolfe
Technical Director

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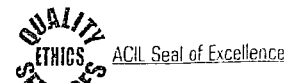
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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044950
Date Collected: 10/02/14 11:34
Collected By: Client
Date Received: 10/03/14 14:55

Sample Description: 14-9273 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|-----------------------------------|---------|---------|--------------------|------------|--------------|--------------|---------|
| Dieldrin | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Endosulfan I | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Endosulfan II | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Endosulfan sulfate | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Endrin | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Endrin aldehyde | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Heptachlor | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Heptachlor Epoxide | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Lindane (Gamma BHC) | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| Toxaphene | <5.40 | * mg/kg | 5.40 | SW846 8081 | 10/10 | 10:53 | lak |
| LATILES | | | | | | | |
| 1,1,1-Trichloroethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| 1,1,2,2-Tetrachloroethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| 1,1,2-Trichloroethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| 1,1-Dichloroethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| 1,1-Dichloroethylene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| 1,2-Dichloroethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| 1,2-Dichloropropane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| 2-Chloroethylvinyl Ether | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Acrolein | <1.35 | * mg/kg | 1.35 | SW846 8260 | 10/06 | 18:33 | gxf |
| Acrylonitrile | <1.35 | * mg/kg | 1.35 | SW846 8260 | 10/06 | 18:33 | gxf |
| Benzene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Bromoform (Tribromomethane) | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Bromomethane (Methyl Bromide) | <0.270 | * mg/kg | 0.270 | SW846 8260 | 10/06 | 18:33 | gxf |
| Carbon Tetrachloride | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Chlorobenzene (Monochlorobenzene) | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Chlorodibromomethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Chloroethane | <0.270 | * mg/kg | 0.270 | SW846 8260 | 10/06 | 18:33 | gxf |
| Chloroform | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe
Technical Director

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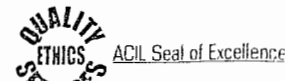
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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: .0124-14-0044950
Date Collected: 10/02/14 11:34
Collected By: Client
Date Received: 10/03/14 14:55

Sample Description: 14-9273 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection | Procedure | Test | Test | Analyst |
|---------------------------------|-------------|---------|-----------|------------|-------|-------|---------|
| | | | Limit | | Date | Time | |
| Chloromethane (Methyl Chloride) | <0.270 | * mg/kg | 0.270 | SW846 8260 | 10/06 | 18:33 | gxf |
| cis-1,3-Dichloropropylene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Dichlorobromomethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Ethylbenzene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Library Search, Volatiles | see comment | mg/kg | .03 | SW846 8260 | 10/06 | 19:43 | gxf |
| Methylene Chloride | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Tetrachloroethylene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Toluene | 0.465 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| trans-1,2-Dichloroethylene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| trans-1,3-Dichloropropylene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| richloroethylene | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Trichlorofluoromethane | <0.135 | * mg/kg | 0.135 | SW846 8260 | 10/06 | 18:33 | gxf |
| Vinyl Chloride | <0.270 | * mg/kg | 0.270 | SW846 8260 | 10/06 | 18:33 | gxf |

56 - The dissolved oxygen depletion of the SM5210B dilution water blank was greater than 0.2 mg/L.

57 - Visual Color of sample was dark brown with white specs

58 - The svoc library search tentatively identified: Cyclic octaatomic sulfur, several Contanes,three Cosanes,Squalene and two Chloestans.

59 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

60 - One or more semi-volatile compounds had high recovery in the QC but none of these compounds were detected in this sample above the laboratory's reporting limit.

Distribution of Report:
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Technical Director

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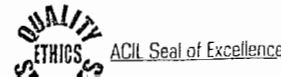
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Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044950
Date Collected: 10/02/14 11:34
Collected By: Client
Date Received: 10/03/14 14:55

Sample Description: 14-9273 Belt Press (Composite, Local Limits)

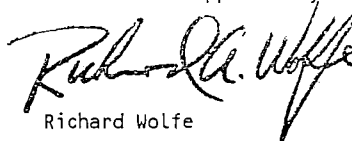
* Results Expressed as Dry Weight

| Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------|------|--------------------|-------------------|--------------|--------------|---------|
|---------|------|--------------------|-------------------|--------------|--------------|---------|

- 61 - The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 62 - The sw846 8270 method ccv had low recovery for N-Nitrosodimethylamine and Bis(2-chloroisopropyl)ether.
- 63 - The sw846 8270 method surrogates 2-Fluorophenol and Phenol-d6 had high recovery in the QC and Phenol-d6 was high in the Blank.
- 64 - The sw846 8270 method ccv had low RF for several compounds.
- 65 - The sw846 8270 internal standards: Phenanthrene-d10, Chrysene-d12 and Perylene-d12 had low recovery in the Blank and Chrysene-d12 was low in the sample.
- 66 - The sw846 8270 method internal standards Phenanthrene-d10 and Chrysene-d12 had low recovery in the duplicate sample.
- 67 - The sw846 8270 method QC had low recovery for Benzidine.
- 68 - The svoc library search tentatively identified: two Decanoic acids, 9-Hexadecenoic acid, Dioctadecyl Ester Phosphonic acid.
- 69 - SW846 8081 ending CCV did not meet laboratory criteria for one or more analytes due to sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

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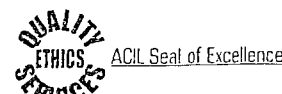
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Date Received: 10/03/14 14:55

Sample Description: 14-9273 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|---------|------|--------------------|-----------|--------------|--------------|---------|
|---------|------|--------------------|-----------|--------------|--------------|---------|

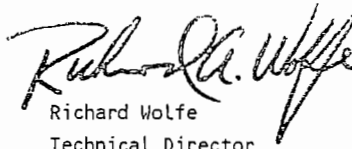
70 - The VOC library search also tentatively identified 1 unknown compound.

71 - For the sw846 8260 low level soil analysis, the response of the internal standard Chlorobenzene-d5 was low for both the sample and the sample duplicate.

72 - The VOC library search tentatively identified 2-Propanol, 2-Butanone, Acetone, p-Isopropyltoluene, Dimethyl sulfide, Limonene, Undecane, Dodecane, and Tridecane.

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Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

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DISTRIBUTION: White: Report; Yellow: Submitter

R 43154

Page 1 of 1

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Local Limits

4. P.O. No.:

Lab #127

5. Samples Name:

AD

Matrix Code (for item 12)

Container Codes (for item 13)

SIZE

TYPE

DW = Drinking Water

2L = 2 Liter

V = VOA vial

GW = Ground Water

L = Liter

G = Glass

WW = Waste Water

500 = 500ml

P = Plastic

S = Soil

250 = 250ml

M = Micro

O = Other

125 = 125ml

O = Other

40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid

T = NA2S2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

N

Samples received on Ice?

N

Sample Containers Intact?

N

VOC's Free of Headspace?

Y

COC Seal Intact or attached?

Y

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER

Checked by:

RAA

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

↓

Cyanide (Total + Free)

8260 (vol.) 8270 (sem. vol.)

8081 (pest) 8082 (PCB)

Phosphorus (T), D, & P (HCL)

and 5614 (HCL) metals

Bromide (T), BOD, TS, NH3-N

Color Visual

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by

TST hrs

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0043938

Date Collected: 09/29/14 12:56
Collected By: Client

Date Received: 09/29/14 14:50

Sample Description: 14-9159 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|-------------------------------------|-------------|---------|--------------------|------------|--------------|--------------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | <2.10 | * mg/kg | 2.10 | DEP 1 | 10/02 | 14:34 | jcl |
| Cyanide, Total | 5.8 | * mg/kg | 2.1 | 10204001X | 10/02 | 14:25 | jcl |
| Phenols (4AAP) | 39 | * mg/kg | 5.3 | EPA 420.4 | 10/01 | 15:41 | jcl |
| Phosphorus as P, Total | 17000 | * mg/kg | 26.3 | SM 4500P-E | 10/03 | 12:40 | hrq |
| NITROGENS | | | | | | | |
| Nitrogen, Ammonia | 4600 | * mg/kg | 260 | EPA 350.1 | 10/02 | 17:06 | jcl |
| OTHER | | | | | | | |
| Biochemical Oxygen Demand (SICAL | 100000 | * mg/kg | 1050 | SM 5210B | 09/30 | 12:20 | emw |
| Visual Color | see comment | color | 1 | VISUAL | 10/22 | 09:01 | dsm |
| RESIDUES | | | | | | | |
| Total Solids | 19.0 | % | 1 | SM 2540G | 10/07 | 14:45 | tmh |
| INORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Antimony, Total | <26.3 | * mg/kg | 26.3 | SW846 6010 | 10/02 | 23:11 | jxs |
| Arsenic, Total | 2 | * mg/kg | 0.5 | EPA 200.9 | 10/09 | 19:57 | mxh |
| Beryllium, Total | <2.63 | * mg/kg | 2.63 | SW846 6010 | 10/02 | 23:11 | jxs |
| Cadmium, Total | 3 | * mg/kg | 3 | SW846 6010 | 10/02 | 23:11 | jxs |
| Chromium, Total | 109 | * mg/kg | 2.63 | SW846 6010 | 10/02 | 23:11 | jxs |
| Copper, Total | 526 | * mg/kg | 2.63 | SW846 6010 | 10/02 | 23:11 | jxs |
| Lead, Total | 150 | * mg/kg | 5.3 | SW846 6010 | 10/02 | 23:11 | jxs |
| Mercury, Total | 3 | * mg/kg | 1 | SW846 7471 | 10/01 | 15:25 | jxs |
| Molybdenum, Total | 79 | * mg/kg | 5.3 | SW846 6010 | 10/02 | 23:11 | jxs |
| Nickel, Total | 65.8 | * mg/kg | 2.63 | SW846 6010 | 10/02 | 23:11 | jxs |
| Selenium, Total | 4 | * mg/kg | 1 | EPA 200.9 | 10/10 | 01:01 | mxh |
| Silver, Total | 6.3 | * mg/kg | 2.6 | SW846 6010 | 10/02 | 11:51 | jxs |
| Thallium, Total | <26.3 | * mg/kg | 26.3 | SW846 6010 | 10/02 | 23:11 | jxs |

Distribution of Report:
Amy L. Morriss - City of Reading WWT

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe

Richard Wolfe
Technical Director

Page 1 of 8

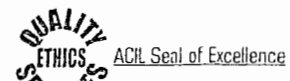
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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
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815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0043938

Date Collected: 09/29/14 12:56
Collected By: Client

Date Received: 09/29/14 14:50

Sample Description: 14-9159 Belt Press (Composite, Local Limits)

| * Results Expressed as Dry Weight | | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|--|--|-------------|---------|-----------------|------------|-----------|-----------|---------|
| Zinc, Total | | 1810 | * mg/kg | 2.63 | SW846 6010 | 10/02 | 23:11 | jxs |
| O&G/TPH | | | | | | | | |
| GENERAL | | | | | | | | |
| N-Hexane Extractable Material (O&G) | | 27600 | * mg/kg | 1316 | EPA 1664 | 10/08 | 06:30 | jlv |
| Silica Gel Treated N-Hexane Extract(TPH) | | 9079 | * mg/kg | 1316 | EPA 1664 | 10/09 | 06:30 | jlv |
| ORGANIC | | | | | | | | |
| ACID COMPOUNDS | | | | | | | | |
| 2,4,6-Trichlorophenol | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 2,4-Dichlorophenol | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 2,4-Dimethylphenol | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 2,4-Dinitrophenol | | <263 | * mg/kg | 263 | SW846 8270 | 10/07 | 18:40 | meb |
| 2-Chlorophenol | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 2-Nitrophenol | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 4,6-Dinitro-o-cresol | | <263 | * mg/kg | 263 | SW846 8270 | 10/07 | 18:40 | meb |
| 4-Chloro-3-methylphenol | | <105 | * mg/kg | 105 | SW846 8270 | 10/07 | 18:40 | meb |
| 4-Nitrophenol | | <263 | * mg/kg | 263 | SW846 8270 | 10/07 | 18:40 | meb |
| Pentachlorophenol | | <263 | * mg/kg | 263 | SW846 8270 | 10/07 | 18:40 | meb |
| Phenol | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| BASE NEUTRALS | | | | | | | | |
| 1,2,4-Trichlorobenzene | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 1,2-Diphenylhydrazine (as Azobenzene) | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 1,3-Dichlorobenzene | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 1,4-Dichlorobenzene | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 2,3,7,8-Tetrachlorodibenzodioxin | | see comment | mg/kg | 2.5 | SW846 8270 | 10/07 | 18:40 | meb |
| 2,4-Dinitrotoluene | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 2,6-Dinitrotoluene | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 2-Chloronaphthalene | | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 3,3'-Dichlorobenzidine | | <105 | * mg/kg | 105 | SW846 8270 | 10/07 | 18:40 | meb |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe
Technical Director

Page 2 of 8

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
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c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0043938

Date Collected: 09/29/14 12:56
Collected By: Client

Date Received: 09/29/14 14:50

Sample Description: 14-9159 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|------------------------------|---------|---------|--------------------|------------|--------------|--------------|---------|
| 3,4-Benzofluoranthene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 4-Bromophenyl phenyl ether | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| 4-Chlorophenyl phenyl ether | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Acenaphthene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Acenaphthylene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Anthracene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Benzidine | <105 | * mg/kg | 105 | SW846 8270 | 10/07 | 18:40 | meb |
| Benzo(a)anthracene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Benzo(a)pyrene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Benzo(ghi)perylene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Benzo(k)fluoranthene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Bis(2-chloroethoxy)methane | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Bis(2-Chloroethyl) ether | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Bis(2-Chloroisopropyl) ether | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Bis(2-Ethylhexyl) phthalate | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Butyl benzyl phthalate | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Chrysene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Di-n-butyl phthalate | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Di-n-octyl phthalate | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Dibenz(a,h)anthracene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Diethyl phthalate | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Dimethyl phthalate | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Fluoranthrene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Fluorene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Hexachlorobenzene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Hexachlorobutadiene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Hexachlorocyclopentadiene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Hexachloroethane | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Indeno(1,2,3-cd)pyrene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe

Technical Director

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ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

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ACHA Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0043938
Date Collected: 09/29/14 12:56
Collected By: Client
Date Received: 09/29/14 14:50

Sample Description: 14-9159 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|-------------------------------|-------------|---------|-----------------|------------|-----------|-----------|---------|
| Isophorone | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Library Search, Semivolatiles | see comment | mg/kg | 2.5 | EPA 625 | 10/07 | 18:40 | meb |
| N-Nitrosodi-n-propylamine | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| N-Nitrosodimethylamine | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| N-Nitrosodiphenylamine | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Naphthalene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Nitrobenzene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Phenanthrene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| Pyrene | <52.6 | * mg/kg | 52.6 | SW846 8270 | 10/07 | 18:40 | meb |
| EXTRACTION | | | | | | | |
| SW846 8081 Extraction | Complete | | 0 | SW846 8081 | 10/01 | 09:00 | rdd |
| SW846 8270 Extraction | Complete | | 0 | SW846 8270 | 10/06 | 08:30 | rdd |
| PCBS | | | | | | | |
| PCB-1016 | <5.26 | * mg/kg | 5.26 | SW846 8082 | 10/06 | 17:02 | lak |
| PCB-1221 | <5.26 | * mg/kg | 5.26 | SW846 8082 | 10/06 | 17:02 | lak |
| PCB-1232 | <5.26 | * mg/kg | 5.26 | SW846 8082 | 10/06 | 17:02 | lak |
| PCB-1242 | <5.26 | * mg/kg | 5.26 | SW846 8082 | 10/06 | 17:02 | lak |
| PCB-1248 | <5.26 | * mg/kg | 5.26 | SW846 8082 | 10/06 | 17:02 | lak |
| PCB-1254 | <5.26 | * mg/kg | 5.26 | SW846 8082 | 10/06 | 17:02 | lak |
| PCB-1260 | <5.26 | * mg/kg | 5.26 | SW846 8082 | 10/06 | 17:02 | lak |
| PESTICIDES | | | | | | | |
| 4,4'-DDD | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | lak |
| 4,4'-DDE | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | lak |
| 4,4'-DDT | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | lak |
| Aldrin | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | lak |
| alpha-BHC | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | lak |
| beta-BHC | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | lak |
| Chlordane | <26.3 | * mg/kg | 26.3 | SW846 8081 | 10/06 | 17:02 | lak |
| delta-BHC | <26.3 | * mg/kg | 26.3 | SW846 8081 | 10/06 | 17:02 | lak |

Distribution of Report:
Amy L. Morriss - City of Reading WWT

M. J. Reider Associates, Inc.

Reviewed and Approved By:



Richard Wolfe
Technical Director

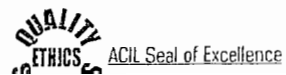
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Date Collected: 09/29/14 12:56
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Sample Description: 14-9159 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|-----------------------------------|---------|---------|--------------------|-------------------|--------------|--------------|---------|
| Dieldrin | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Endosulfan I | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Endosulfan II | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Endosulfan sulfate | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Endrin | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Endrin aldehyde | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Heptachlor | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Heptachlor Epoxide | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Lindane (Gamma BHC) | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| Toxaphene | <5.26 | * mg/kg | 5.26 | SW846 8081 | 10/06 | 17:02 | Lak |
| TILES | | | | | | | |
| 1,1,1-Trichloroethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| 1,1,2,2-Tetrachloroethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| 1,1,2-Trichloroethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| 1,1-Dichloroethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| 1,1-Dichloroethylene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| 1,2-Dichloroethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| 1,2-Dichloropropane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| 2-Chloroethylvinyl Ether | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Acrolein | <1.3 | * mg/kg | 1.3 | SW846 8260 | 09/30 | 21:14 | gxf |
| Acrylonitrile | <1.3 | * mg/kg | 1.3 | SW846 8260 | 09/30 | 21:14 | gxf |
| Benzene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Bromoform (Tribromomethane) | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Bromomethane (Methyl Bromide) | <0.26 | * mg/kg | 0.26 | SW846 8260 | 09/30 | 21:14 | gxf |
| Carbon Tetrachloride | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Chlorobenzene (Monochlorobenzene) | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Chlorodibromomethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Chloroethane | <0.26 | * mg/kg | 0.26 | SW846 8260 | 09/30 | 21:14 | gxf |
| Chloroform | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe
Technical Director

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Sample Description: 14-9159 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|---------------------------------|-------------|---------|-----------------|------------|-----------|-----------|---------|
| Chloromethane (Methyl Chloride) | <0.26 | * mg/kg | 0.26 | SW846 8260 | 09/30 | 21:14 | gxf |
| cis-1,3-Dichloropropylene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Dichlorobromomethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Ethylbenzene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Library Search, Volatiles | see comment | mg/kg | .03 | SW846 8260 | 09/30 | 22:23 | gxf |
| Methylene Chloride | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Tetrachloroethylene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Toluene | 0.34 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| trans-1,2-Dichloroethylene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| trans-1,3-Dichloropropylene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| richloroethylene | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Trichlorofluoromethane | <0.13 | * mg/kg | 0.13 | SW846 8260 | 09/30 | 21:14 | gxf |
| Vinyl Chloride | <0.26 | * mg/kg | 0.26 | SW846 8260 | 09/30 | 21:14 | gxf |

- 14 - SW846 8081/8082 ending CCVs failed laboratory criteria for one or more compounds due to sample matrix interference.
- 15 - One of the matrix spike/matrix spike duplicate results was outside of the recommended range but the other passed the criteria for Phenols.
- 16 - The VOC Library search tentatively identified 1-Propanol, 2-Butanone, Acetone, p-Isopropyltoluene, Dimethyl sulfide, Undecane, Dodecane, Tridecane, and Tetradecane.
- 17 - The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 18 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

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Richard Wolfe
Technical Director

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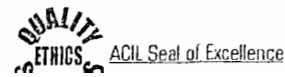
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CERTIFICATE OF ANALYSIS

M.J. Reid Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0043938
Date Collected: 09/29/14 12:56
Collected By: Client
Date Received: 09/29/14 14:50

Sample Description: 14-9159 Belt Press (Composite, Local Limits)

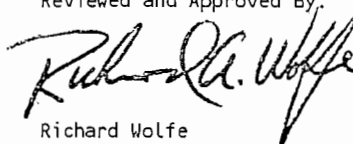
* Results Expressed as Dry Weight

| Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------|------|-----------------|----------------|-----------|-----------|---------|
|---------|------|-----------------|----------------|-----------|-----------|---------|

- 19 - One or more semi-volatile compounds had high recovery in the QC but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 20 - The sw846 8270 method matrix spike had low and high recovery due to sample matrix interference.
- 21 - The sw846 8270 method ccv had low recovery for N-Nitrosodimethylamine and Bis(2-chloroisopropyl)ether.
- 22 - The sw846 8270 method ccv had low RF for several compounds.
- 23 - The sw846 8270 internal standards: Phenanthrene-d10, Chrysene-d12 had low recovery in the Blank, MS, Sample and Perylene-d12 was low in the Blank.
- 24 - The VOC library search also tentatively identified 1-unknown compound.
- 25 - The sw846 8270 method surrogate Phenol-d6 had high recovery in the QC and Blank and 2-Fluorophenol was high in the Blank.
- 26 - The sw846 8270 method QC had low recovery for Benzidine.
- 27 - The svoc library search tentatively identified: three Contanes, Cyclic octaatomic sulfur, Cholestan-3-ol and Cholestan-3-one.

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Richard Wolfe
Technical Director

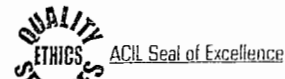
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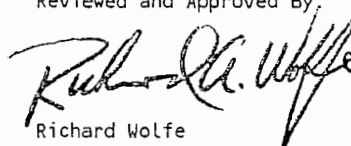
* Results Expressed as Dry Weight

| Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------|------|--------------------|-------------------|--------------|--------------|---------|
|---------|------|--------------------|-------------------|--------------|--------------|---------|

28 - Visual Color of sample was black with white specs

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815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044082
Date Collected: 09/30/14 11:56
Collected By: Client
Date Received: 09/30/14 13:11

Sample Description: 14-9193 Belt Press (Composite, Local Limits)

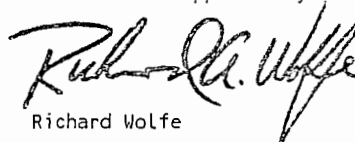
* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|---------------------------|-------------|---------|-----------------|------------|-----------|-----------|---------|
| CHEMISTRY | | | | | | | |
| COLORMETRIC | | | | | | | |
| Cyanide, Free | <2.27 | * mg/kg | 2.27 | DEP 1 | 10/02 | 14:36 | jcl |
| Cyanide, Total | 6.2 | * mg/kg | 2.3 | 10204001X | 10/02 | 14:28 | jcl |
| Phenols (4AAP) | 25 | * mg/kg | 5.7 | EPA 420.4 | 10/01 | 15:47 | jcl |
| Phosphorus as P, Total | 20200 | * mg/kg | 28.4 | SM 4500P-E | 10/03 | 12:45 | hrg |
| NITROGENS | | | | | | | |
| Nitrogen, Ammonia | 7730 | * mg/kg | 284 | EPA 350.1 | 10/02 | 17:11 | jcl |
| OTHER | | | | | | | |
| Biochemical Oxygen Demand | 83000 | * mg/kg | 1140 | SM 5210B | 10/01 | 13:25 | emw |
| PHYSICAL | | | | | | | |
| Visual Color | see comment | color | 1 | VISUAL | 10/22 | 09:03 | dsm |
| RESIDUES | | | | | | | |
| Total Solids | 17.6 | % | 1 | SM 2540G | 10/07 | 14:45 | tmh |
| INORGANIC | | | | | | | |
| TOTAL | | | | | | | |
| Antimony, Total | <28.4 | * mg/kg | 28.4 | SW846 6010 | 10/02 | 23:11 | jxs |
| Arsenic, Total | <0.568 | * mg/kg | 0.568 | EPA 200.9 | 10/09 | 19:57 | mxh |
| Beryllium, Total | <2.84 | * mg/kg | 2.84 | SW846 6010 | 10/02 | 23:11 | jxs |
| Cadmium, Total | 3 | * mg/kg | 3 | SW846 6010 | 10/02 | 23:11 | jxs |
| Chromium, Total | 110 | * mg/kg | 2.84 | SW846 6010 | 10/02 | 23:11 | jxs |
| Copper, Total | 555 | * mg/kg | 2.84 | SW846 6010 | 10/02 | 23:11 | jxs |
| Lead, Total | 140 | * mg/kg | 5.7 | SW846 6010 | 10/02 | 23:11 | jxs |
| Mercury, Total | 3 | * mg/kg | 1 | SW846 7471 | 10/01 | 15:25 | jxs |
| Molybdenum, Total | 74 | * mg/kg | 5.7 | SW846 6010 | 10/02 | 23:11 | jxs |
| Nickel, Total | 53 | * mg/kg | 2.8 | SW846 6010 | 10/02 | 23:11 | jxs |
| Selenium, Total | <1.14 | * mg/kg | 1.14 | EPA 200.9 | 10/10 | 01:01 | mxh |
| Silver, Total | 5.7 | * mg/kg | 2.8 | SW846 6010 | 10/02 | 11:51 | jxs |
| Thallium, Total | <28.4 | * mg/kg | 28.4 | SW846 6010 | 10/02 | 23:11 | jxs |

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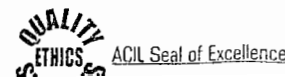
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Collected By: Client
Date Received: 09/30/14 13:11


Sample Description: 14-9193 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|--|-------------|---------|-----------------|------------|-----------|-----------|---------|
| Zinc, Total | 1880 | * mg/kg | 2.84 | SW846 6010 | 10/02 | 23:11 | jxs |
| O&G/TPH | | | | | | | |
| GENERAL | | | | | | | |
| N-Hexane Extractable Material (O&G) | 30280 | * mg/kg | 1420 | EPA 1664 | 10/08 | 06:30 | jlw |
| Silica Gel Treated N-Hexane Extract(TPH) | 10400 | * mg/kg | 1420 | EPA 1664 | 10/09 | 06:30 | jlw |
| ORGANIC | | | | | | | |
| ACID COMPOUNDS | | | | | | | |
| 2,4,6-Trichlorophenol | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 2,4-Dichlorophenol | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 2,4-Dimethylphenol | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 2,4-Dinitrophenol | <284 | * mg/kg | 284 | SW846 8270 | 10/08 | 00:37 | meb |
| 2-Chlorophenol | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 2-Nitrophenol | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 4,6-Dinitro-o-cresol | <284 | * mg/kg | 284 | SW846 8270 | 10/08 | 00:37 | meb |
| 4-Chloro-3-methylphenol | <114 | * mg/kg | 114 | SW846 8270 | 10/08 | 00:37 | meb |
| 4-Nitrophenol | <284 | * mg/kg | 284 | SW846 8270 | 10/08 | 00:37 | meb |
| Pentachlorophenol | <284 | * mg/kg | 284 | SW846 8270 | 10/08 | 00:37 | meb |
| Phenol | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| BASE NEUTRALS | | | | | | | |
| 1,2,4-Trichlorobenzene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 1,2-Diphenylhydrazine (as Azobenzene) | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 1,3-Dichlorobenzene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 1,4-Dichlorobenzene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 2,3,7,8-Tetrachlorodibenzodioxin | see comment | mg/kg | 2.5 | SW846 8270 | 10/08 | 00:37 | meb |
| 2,4-Dinitrotoluene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 2,6-Dinitrotoluene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 2-Chloronaphthalene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 3,3'-Dichlorobenzidine | <114 | * mg/kg | 114 | SW846 8270 | 10/08 | 00:37 | meb |

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Attention: Amy L. Morriss
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c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044082
Date Collected: 09/30/14 11:56
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Date Received: 09/30/14 13:11

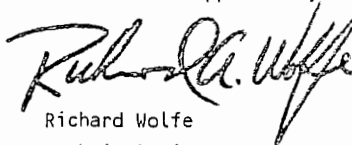
Sample Description: 14-9193 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|------------------------------|---------|---------|--------------------|------------|--------------|--------------|---------|
| 3,4-Benzofluoranthene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 4-Bromophenyl phenyl ether | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| 4-Chlorophenyl phenyl ether | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Acenaphthene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Acenaphthylene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Anthracene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Benzidine | <114 | * mg/kg | 114 | SW846 8270 | 10/08 | 00:37 | meb |
| Benzo(a)anthracene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Benzo(a)pyrene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Benzo(ghi)perylene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Benzo(k)fluoranthene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Bis(2-chloroethoxy)methane | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Bis(2-Chloroethyl) ether | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Bis(2-Chloroisopropyl) ether | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Bis(2-Ethylhexyl) phthalate | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Butyl benzyl phthalate | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Chrysene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Di-n-butyl phthalate | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Di-n-octyl phthalate | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Dibenz(a,h)anthracene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Diethyl phthalate | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Dimethyl phthalate | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Fluoranthrene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Fluorene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Hexachlorobenzene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Hexachlorobutadiene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Hexachlorocyclopentadiene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Hexachloroethane | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Indeno(1,2,3-cd)pyrene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |

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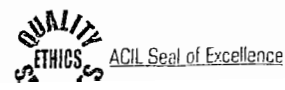
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Sample Description: 14-9193 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|-------------------------------|-------------|---------|-----------------|----------------|-----------|-----------|---------|
| Isophorone | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Library Search, Semivolatiles | see comment | mg/kg | 2.5 | EPA 625 | 10/08 | 00:37 | meb |
| N-Nitrosodi-n-propylamine | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| N-Nitrosodimethylamine | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| N-Nitrosodiphenylamine | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Naphthalene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Nitrobenzene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Phenanthrene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| Pyrene | <56.8 | * mg/kg | 56.8 | SW846 8270 | 10/08 | 00:37 | meb |
| EXTRACTION | | | | | | | |
| W846 8081 Extraction | Complete | | 0 | SW846 8081 | 10/01 | 09:00 | rdd |
| SW846 8270 Extraction | Complete | | 0 | SW846 8270 | 10/06 | 08:30 | rdd |
| PCBS | | | | | | | |
| PCB-1016 | <5.68 | * mg/kg | 5.68 | SW846 8082 | 10/06 | 18:14 | lak |
| PCB-1221 | <5.68 | * mg/kg | 5.68 | SW846 8082 | 10/06 | 18:14 | lak |
| PCB-1232 | <5.68 | * mg/kg | 5.68 | SW846 8082 | 10/06 | 18:14 | lak |
| PCB-1242 | <5.68 | * mg/kg | 5.68 | SW846 8082 | 10/06 | 18:14 | lak |
| PCB-1248 | <5.68 | * mg/kg | 5.68 | SW846 8082 | 10/06 | 18:14 | lak |
| PCB-1254 | <5.68 | * mg/kg | 5.68 | SW846 8082 | 10/06 | 18:14 | lak |
| PCB-1260 | <5.68 | * mg/kg | 5.68 | SW846 8082 | 10/06 | 18:14 | lak |
| PESTICIDES | | | | | | | |
| 4,4'-DDD | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| 4,4'-DDE | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| 4,4'-DDT | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Aldrin | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| alpha-BHC | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| beta-BHC | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Chlordane | <28.4 | * mg/kg | 28.4 | SW846 8081 | 10/06 | 18:14 | lak |
| delta-BHC | <28.4 | * mg/kg | 28.4 | SW846 8081 | 10/06 | 18:14 | lak |

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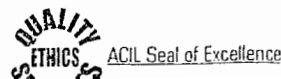
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Sample Description: 14-9193 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection Limit | Procedure | Test Date | Test Time | Analyst |
|-----------------------------------|---------|---------|-----------------|------------|-----------|-----------|---------|
| Dieldrin | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Endosulfan I | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Endosulfan II | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Endosulfan sulfate | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Endrin | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Endrin aldehyde | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Heptachlor | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Heptachlor Epoxide | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Lindane (Gamma BHC) | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| Toxaphene | <5.68 | * mg/kg | 5.68 | SW846 8081 | 10/06 | 18:14 | lak |
| ATILES | | | | | | | |
| 1,1,1-Trichloroethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| 1,1,2,2-Tetrachloroethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| 1,1,2-Trichloroethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| 1,1-Dichloroethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| 1,1-Dichloroethylene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| 1,2-Dichloroethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| 1,2-Dichloropropane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| 2-Chloroethylvinyl Ether | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Acrolein | <1.4 | * mg/kg | 1.4 | SW846 8260 | 10/01 | 01:52 | gxf |
| Acrylonitrile | <1.4 | * mg/kg | 1.4 | SW846 8260 | 10/01 | 01:52 | gxf |
| Benzene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Bromoform (Tribromomethane) | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Bromomethane (Methyl Bromide) | <0.28 | * mg/kg | 0.28 | SW846 8260 | 10/01 | 01:52 | gxf |
| Carbon Tetrachloride | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Chlorobenzene (Monochlorobenzene) | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Chlorodibromomethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Chloroethane | <0.28 | * mg/kg | 0.28 | SW846 8260 | 10/01 | 01:52 | gxf |
| Chloroform | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/22/14
Lab ID: 0124-14-0044082
Date Collected: 09/30/14 11:56
Collected By: Client
Date Received: 09/30/14 13:11

Sample Description: 14-9193 Belt Press (Composite, Local Limits)

* Results Expressed as Dry Weight

| | Results | Unit | Detection | | Test Date | Test Time | Analyst |
|---------------------------------|-------------|---------|-----------|------------|--------------|--------------|---------|
| | | | Limit | Procedure | | | |
| Chloromethane (Methyl Chloride) | <0.28 | * mg/kg | 0.28 | SW846 8260 | 10/01 | 01:52 | gxf |
| cis-1,3-Dichloropropylene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Dichlorobromomethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Ethylbenzene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Library Search, Volatiles | see comment | mg/kg | .03 | SW846 8260 | 10/01 | 01:52 | gxf |
| Methylene Chloride | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Tetrachloroethylene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Toluene | 0.52 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| trans-1,2-Dichloroethylene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| trans-1,3-Dichloropropylene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Trichloroethylene | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Trichlorofluoromethane | <0.14 | * mg/kg | 0.14 | SW846 8260 | 10/01 | 01:52 | gxf |
| Vinyl chloride | <0.28 | * mg/kg | 0.28 | SW846 8260 | 10/01 | 01:52 | gxf |

40 - SW846 8081/8082 ending CCVs failed laboratory criteria for one or more compounds due to sample matrix interference.

41 - SW846 8081 method surrogate had high recoveries in the sample.

42 - Visual Color of sample was dark brown with white specs

43 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

44 - One or more semi-volatile compounds had high recovery in the QC but none of these compounds were detected in this sample above the laboratory's reporting limit.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

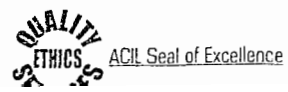
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Sample Description: 14-9193 Belt Press (Composite, Local Limits)

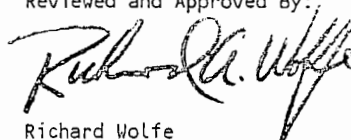
* Results Expressed as Dry Weight

| Results | Unit | Detection Limit | Test Procedure | Test Date | Test Time | Analyst |
|---------|------|-----------------|----------------|-----------|-----------|---------|
|---------|------|-----------------|----------------|-----------|-----------|---------|

- 45 - The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 46 - The sw846 8270 method QC had low recovery for Benzidine.
- 47 - The sw846 8270 method ccv had low recovery for N-Nitrosodimethylamine and Bis(2-chloroisopropyl)ether.
- 48 - The sw846 8270 method ccv had low RF for several compounds.
- 49 - The sw846 8270 internal standards: Phenanthrene-d10, Chrysene-d12 had low recovery in the Blank and the sample and Perylene-d12 was low in the Blank.
- 50 - The sw846 8270 method surrogates 2-Fluorophenol and Phenol-d6 had high recovery in the QC and Phenol-d6 was low in the Blank.
- 51 - The svoc library search tentatively identified Tritetracontane and Cholestan-3-one.
- 52 - The VOC library search tentatively identified Dimethyl sulfide, 4-Isopropyltoluene, Limonene, Undecane, Dodecane, Tridecane, and Tetradecane.
- 53 - The VOC library search also tentatively identified 1,2,3-Trimethylbenzene and 2 unknown compounds.

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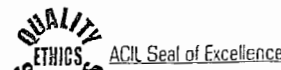
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|---------|------|--------------------|-------------------|--------------|--------------|---------|
|---------|------|--------------------|-------------------|--------------|--------------|---------|

54 - For the sw846 8260 low level soil analysis, recovery of the surrogate Dibromofluoromethane was low.

55 - For the sw846 8260 low level soil analysis, the response of the internal standard Chlorobenzene-d5 was low.

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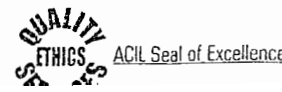
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M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 43145

Page 1 of 1

6. Report Type:

☒ Routine

Standard QC

Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Local Limits

4. P.O. No.: 6-5 124

5. Samples Name: ADM

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = NA2S2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Y

N

N

Y

Y

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals Method 200.8: As, Ag, Be, Cd, Cr, Cu, Hg, Pb, Mo, Ni,

Report sludge as mg/kg dry weight
Sb, Se, Tl, Zn

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

16. Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Cyanide (Total + Free)
8260 (Vol.), 8270 (semi-vol)
8081 (Pest.), (8082 PCB),
Phosphorus (Total), Metals,
Phenols (Total), Oil and
Grease (HEM + SGT HEM),
BOD, TS, NH3-N, Color Visual

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: [Signature] Approved by: [Signature] TSP# [Signature]

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.